

<110> Soppet et al.

<120> 33 Human Secreted Proteins

<130> PZ037P1

<140> Unassigned

<141> 2000-07-28

<150> PCT/US00/03062

<151> 2000-02-08

<150> 60/119,468

<151> 1999-02-10

<160> 173

<170> PatentIn Ver. 2.0

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<211> 733

<212> DNA

<213> Homo sapiens

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<212> PRT

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 <213> Homo sapiens

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73

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<211> 256

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<222> (542)

<223> n equals a,t,g, or c

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ggccgggtcc aggccttggg gccccgcggt cccctgccc cctcttcttc agagtctgcc      180
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<212> DNA

<213> Homo sapiens

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<211> 2133

<212> DNA

<213> Homo sapiens

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<210> 25

<211> 1248

<212> DNA

<213> Homo sapiens

<400> 25

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<210> 26

<211> 1348

<212> DNA

<213> Homo sapiens

<400> 26

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<210> 27

<211> 1032

<212> DNA

<213> Homo sapiens

<400> 27

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<210> 28

<211> 1363

<212> DNA

<213> Homo sapiens

<400> 28

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<210> 29
 <211> 2275
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1449)
 <223> n equals a,t,g, or c

<400> 29
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<210> 30
 <211> 1971
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (416)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (458)
 <223> n equals a,t,g, or c

<400> 30

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<210> 31
 <211> 1898
 <212> DNA
 <213> Homo sapiens

<400> 31

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ccagcgggaa	cgtgggggca	ctgggtgtkc	tgatataaag	tcggcattac	tcaagctgca	1860
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<210> 32
 <211> 808
 <212> DNA
 <213> Homo sapiens

<400> 32						
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<210> 33
 <211> 1264
 <212> DNA
 <213> Homo sapiens

<400> 33						
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gccg						1264

<210> 34
 <211> 956
 <212> DNA
 <213> Homo sapiens

<400> 34						
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<210> 35
 <211> 1505
 <212> DNA
 <213> Homo sapiens

<400> 35						
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tcgag						1505

<210> 36

<211> 1239

<212> DNA

<213> Homo sapiens

<400> 36

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<210> 37

<211> 900

<212> DNA

<213> Homo sapiens

<400> 37

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<210> 38

<211> 797
 <212> DNA
 <213> Homo sapiens

<400> 38
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<210> 39
 <211> 2042
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (42)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2026)
 <223> n equals a,t,g, or c

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<210> 40

<211> 2145

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (988)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1123)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1167)

<223> n equals a,t,g, or c

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<210> 41

<211> 1084

<212> DNA

<213> Homo sapiens

<400> 41

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<210> 42

<211> 925

<212> DNA

<213> Homo sapiens

<400> 42

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<210> 43

<211> 2907

<212> DNA

<213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <211> 1412
 <212> DNA
 <213> Homo sapiens

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<220>
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 <211> 1179
 <212> DNA
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<400> 46

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<400> 47

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 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (722)
 <223> n equals a,t,g, or c

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<211> 1094

<212> DNA

<213> Homo sapiens

<400> 50

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<210> 51

<211> 1963

<212> DNA

<213> Homo sapiens

<400> 51

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<210> 52

<211> 1937

<212> DNA

<213> Homo sapiens

<400> 52

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<210> 53

<211> 770

<212> DNA

<213> Homo sapiens

<400> 53

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<211> 1081

<212> DNA

<213> Homo sapiens

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<222> (1077)

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<400> 54

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<210> 55

<211> 720

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> n equals a,t,g, or c

<400> 55

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ggagccctgg	ctgggtgagg	ctcgctcttt	gcctgacggg	cttagtgctc	tcgctctacg	120
cgctgcacgt	gaaggcggcg	cgcgcggggg	accgggatta	ccgcgcgctc	tgcgacgtgg	180
gcaccgccat	cagctgttgc	cgcgtcttct	cctccagggt	gcctgsggac	acgctggggc	240
tctgtmctga	tgtgtgtag	ctccctgggt	tctctcgctg	gttctgtcta	cctggsctgg	300
atcctgttct	tcgtgctcta	tgawtttctg	cattgtttgt	aatcaccacc	tatgctatca	360
acgtgacctg	atgtggctca	gtttccggaa	ggtccaagaa	ccccagggca	aggctaagag	420
gcactgagcc	ctcaacccaa	gccaggctga	cctcatctgc	tttgcttttg	catgtgagcc	480
ttgcctaagg	gggcataatc	gggtccctag	aaggccctag	atgtggggct	tctagattac	540
ccccctctcc	tgccataccc	gcacatgaca	atggaccaa	tgtgccacac	gctcgctctt	600
ttttacaccc	agtgcctctg	actctgtccc	catgggctgg	tctccaaagc	tctttccatt	660
gcccaggagg	ggaaggttct	gagcaataaa	gtttcttaga	tcaaaaaaaa	aaaaaaaaaa	720

<210> 56

<211> 499

<212> DNA

<213> Homo sapiens

<400> 56

gggctgcagg	aattcggcac	gagccaaaac	agctttaatg	acccatatgt	acacttcgta	60
atctcaaggt	tattattctg	acaccagctt	gctgctatga	tttcagagca	cataagtaaa	120
ggtgcttttt	aatgtgcagt	ctatttccag	agcttactta	gttgctgatt	tccagatttc	180
gatgtttctt	aagtctaggt	gaatttatat	atatattttt	ttgcttttca	ttttctaaag	240
ttagttatta	tttccattga	agcttggttt	cttttttttc	ttccattttt	agctactgca	300

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gtgcttttgt ttcacacttg atttgtaaaa attttatata tatgtattta aaatgtgcca 360
ttttattgct aagtgaagta tgtcctgttt tctgctataa ttctttctcg gtcagattgc 420
aatgtcagca gttactgcca cactcctgtc agcttaaaca caaatgttac cgcttatctt 480
ttcttaaaaa aaaaaaaaaa 499

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<210> 57
 <211> 246
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (213)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 57
 Met Ala Ala Ala Ala Thr Lys Ile Leu Leu Cys Leu Pro Leu Leu -
 1 5 10 15
 Leu Leu Leu Ser Gly Trp Ser Arg Ala Gly Arg Ala Asp Pro His Ser
 20 25 30
 Leu Cys Tyr Asp Ile Thr Val Ile Pro Lys Phe Arg Pro Gly Pro Arg
 35 40 45
 Trp Cys Ala Val Gln Gly Gln Val Asp Glu Lys Thr Phe Leu His Tyr
 50 55 60
 Asp Cys Gly Asn Lys Thr Val Thr Pro Val Ser Pro Leu Gly Lys Lys
 65 70 75 80
 Leu Asn Val Thr Thr Ala Trp Lys Ala Gln Asn Pro Val Leu Arg Glu
 85 90 95
 Val Val Asp Ile Leu Thr Glu Gln Leu Arg Asp Ile Gln Leu Glu Asn
 100 105 110
 Tyr Thr Pro Lys Glu Pro Leu Thr Leu Gln Ala Arg Met Ser Cys Glu
 115 120 125
 Gln Lys Ala Glu Gly His Ser Ser Gly Ser Trp Gln Phe Ser Phe Asp
 130 135 140
 Gly Gln Ile Phe Leu Leu Phe Asp Ser Glu Lys Arg Met Trp Thr Thr
 145 150 155 160
 Val His Pro Gly Ala Arg Lys Met Lys Glu Lys Trp Glu Asn Asp Lys
 165 170 175
 Val Val Ala Met Ser Phe His Tyr Phe Ser Met Gly Asp Cys Ile Gly
 180 185 190
 Trp Leu Glu Asp Phe Leu Met Gly Met Asp Ser Thr Leu Glu Pro Ser
 195 200 205
 Ala Gly Ala Pro Xaa Ala Met Ser Ser Gly Thr Thr Gln Leu Arg Ala
 210 215 220
 Thr Ala Thr Thr Leu Ile Leu Cys Cys Leu Leu Ile Ile Leu Pro Cys
 225 230 235 240

Phe Ile Leu Pro Gly Ile
245

<210> 58

<211> 233

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (168)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 58

Met Val Ser Pro Arg Met Ser Gly Leu Leu Ser Gln Thr Val Ile Leu
1 5 10 15

Ala Leu Ile Phe Leu Pro Gln Thr Arg Pro Ala Gly Val Phe Glu Leu
20 25 30

Gln Ile His Ser Phe Gly Pro Gly Pro Gly Pro Gly Ala Pro Arg Ser
35 40 45

Pro Cys Arg Leu Phe Phe Arg Val Cys Leu Lys Pro Gly Leu Ser Glu
50 55 60

Glu Ala Ala Glu Ser Pro Cys Ala Leu Gly Ala Ala Leu Ser Ala Arg
65 70 75 80

Gly Pro Val Tyr Thr Glu Gln Pro Gly Ala Pro Ala Pro Asp Leu Pro
85 90 95

Leu Pro Asp Gly Leu Leu Gln Val Pro Phe Arg Asp Ala Trp Pro Gly
100 105 110

Thr Phe Ser Phe Ile Ile Glu Thr Trp Arg Glu Glu Leu Gly Asp Gln
115 120 125

Ile Gly Gly Pro Ala Trp Ser Leu Leu Ala Arg Val Ala Gly Arg Arg
130 135 140

Arg Leu Ala Ala Gly Gly Arg Gly Pro Gly Thr Phe Ser Ala Gln Ala
145 150 155 160

Pro Gly Ser Cys Ala Ser Arg Xaa Ala Arg Ala Ala Ser Arg Leu Pro
165 170 175

Ser Gly Pro Arg Ala Arg Ala Ser Ala Val Arg Ala Ala Pro Pro Arg
180 185 190

Gly Ala Val Arg Asp Cys Ala Pro Ala His Arg Ser Arg Pro Asn Val
195 200 205

Arg Arg Arg Arg Cys Ala Glu Gln Ala Ala Ala Leu Ser Met Ala Ser
210 215 220

Val Asn Ser Pro Val Asn Ala Asp Ala
225 230

<210> 59
 <211> 335
 <212> PRT
 <213> Homo sapiens

<400> 59

Met	Ala	Gly	Ser	Pro	Thr	Cys	Leu	Thr	Leu	Ile	Tyr	Ile	Leu	Trp	Gln
1				5					10					15	
Leu	Thr	Gly	Ser	Ala	Ala	Ser	Gly	Pro	Val	Lys	Glu	Leu	Val	Gly	Ser
			20					25					30		
Val	Gly	Gly	Ala	Val	Thr	Phe	Pro	Leu	Lys	Ser	Lys	Val	Lys	Gln	Val
		35					40					45			
Asp	Ser	Ile	Val	Trp	Thr	Phe	Asn	Thr	Thr	Pro	Leu	Val	Thr	Ile	Gln
	50					55					60				
Pro	Glu	Gly	Gly	Thr	Ile	Ile	Val	Thr	Gln	Asn	Arg	Asn	Arg	Glu	Arg
	65				70					75					80
Val	Asp	Phe	Pro	Asp	Gly	Gly	Tyr	Ser	Leu	Lys	Leu	Ser	Lys	Leu	Lys
				85					90					95	
Lys	Asn	Asp	Ser	Gly	Ile	Tyr	Tyr	Val	Gly	Ile	Tyr	Ser	Ser	Ser	Leu
			100					105					110		
Gln	Gln	Pro	Ser	Thr	Gln	Glu	Tyr	Val	Leu	His	Val	Tyr	Glu	His	Leu
		115					120					125			
Ser	Lys	Pro	Lys	Val	Thr	Met	Gly	Leu	Gln	Ser	Asn	Lys	Asn	Gly	Thr
		130				135					140				
Cys	Val	Thr	Asn	Leu	Thr	Cys	Cys	Met	Glu	His	Gly	Glu	Glu	Asp	Val
	145				150					155					160
Ile	Tyr	Thr	Trp	Lys	Ala	Leu	Gly	Gln	Ala	Ala	Asn	Glu	Ser	His	Asn
				165				170						175	
Gly	Ser	Ile	Leu	Pro	Ile	Ser	Trp	Arg	Trp	Gly	Glu	Ser	Asp	Met	Thr
			180					185					190		
Phe	Ile	Cys	Val	Ala	Arg	Asn	Pro	Val	Ser	Arg	Asn	Phe	Ser	Ser	Pro
		195					200					205			
Ile	Leu	Ala	Arg	Lys	Leu	Cys	Glu	Gly	Ala	Ala	Asp	Asp	Pro	Asp	Ser
	210					215					220				
Ser	Met	Val	Leu	Leu	Cys	Leu	Leu	Leu	Val	Pro	Leu	Leu	Leu	Ser	Leu
	225				230					235					240
Phe	Val	Leu	Gly	Leu	Phe	Leu	Trp	Phe	Leu	Lys	Arg	Glu	Arg	Gln	Glu
				245				250						255	
Glu	Tyr	Ile	Glu	Glu	Lys	Lys	Arg	Val	Asp	Ile	Cys	Arg	Glu	Thr	Pro
			260					265					270		
Asn	Ile	Cys	Pro	His	Ser	Gly	Glu	Asn	Thr	Glu	Tyr	Asp	Thr	Ile	Pro
		275					280					285			

His Thr Asn Arg Thr Ile Leu Lys Glu Asp Pro Ala Asn Thr Val Tyr
 290 295 300

Ser Thr Val Glu Ile Pro Lys Lys Met Glu Asn Pro His Ser Leu Leu
 305 310 315 320

Thr Met Pro Asp Thr Pro Arg Leu Phe Ala Tyr Glu Asn Val Ile
 325 330 335

<210> 60

<211> 84

<212> PRT

<213> Homo sapiens

<400> 60

Met Lys Leu Leu Tyr Leu Phe Leu Ala Ile Leu Leu Ala Ile Glu Glu
 1 5 10 15

Pro Val Ile Ser Gly Lys Arg His Ile Leu Arg Cys Met Gly Asn Ser
 20 25 30

Gly Ile Cys Arg Ala Ser Cys Lys Lys Asn Glu Gln Pro Tyr Leu Tyr
 35 40 45

Cys Arg Asn Cys Gln Ser Cys Cys Leu Gln Ser Tyr Met Arg Ile Ser
 50 55 60

Ile Ser Gly Lys Glu Glu Asn Thr Asp Trp Ser Tyr Glu Lys Gln Trp
 65 70 75 80

Pro Arg Leu Pro

<210> 61

<211> 223

<212> PRT

<213> Homo sapiens

<400> 61

Met Lys Phe Val Pro Cys Leu Leu Leu Val Thr Leu Ser Cys Leu Gly
 1 5 10 15

Thr Leu Gly Gln Ala Pro Arg Gln Lys Gln Gly Ser Thr Gly Glu Glu
 20 25 30

Phe His Phe Gln Thr Gly Gly Arg Asp Ser Cys Thr Met Arg Pro Ser
 35 40 45

Ser Leu Gly Gln Gly Ala Gly Glu Val Trp Leu Arg Val Asp Cys Arg
 50 55 60

Asn Thr Asp Gln Thr Tyr Trp Cys Glu Tyr Arg Gly Gln Pro Ser Met
 65 70 75 80

Cys Gln Ala Phe Ala Ala Asp Pro Lys Ser Tyr Trp Asn Gln Ala Leu
 85 90 95

Gln Glu Leu Arg Arg Leu His His Ala Cys Gln Gly Ala Pro Val Leu
 100 105 110

Arg Pro Ser Val Cys Arg Glu Ala Gly Pro Gln Ala His Met Gln Gln
115 120 125

Val Thr Ser Ser Leu Lys Gly Ser Pro Glu Pro Asn Gln Gln Pro Glu
130 135 140

Ala Gly Thr Pro Ser Leu Arg Pro Lys Ala Thr Val Lys Leu Thr Glu
145 150 155 160

Ala Thr Gln Leu Gly Lys Asp Ser Met Glu Glu Leu Gly Lys Ala Lys
165 170 175

Pro Thr Thr Arg Pro Thr Ala Lys Pro Thr Gln Pro Gly Pro Arg Pro
180 185 190

Gly Gly Asn Glu Glu Ala Lys Lys Lys Ala Trp Glu His Cys Trp Lys
195 200 205

Pro Phe Gln Ala Leu Cys Ala Phe Leu Ile Ser Phe Phe Arg Gly
210 215 220

<210> 62

<211> 82

<212> PRT

<213> Homo sapiens

<400> 62

Met Ala Ile Ser Cys Trp Ala Ser Leu Thr Val Lys Ser Leu Tyr Cys
1 5 10 15

Leu Leu Gly Phe Trp Trp Glu Ala Val Ile Ser Ser Asn Glu Leu Pro
20 25 30

Leu Pro Trp Ile Cys Gln Glu Ala Asp Gly Asn Leu Ala Asn Ser Gly
35 40 45

Arg Tyr Gln Ala Pro Ser Ser Ala Pro Val Thr Leu Phe Tyr Thr Cys
50 55 60

Gly Ser Thr Thr Val Cys Ser Glu Gly Gln Ser Leu Pro Leu Leu Cys
65 70 75 80

Phe Ser

<210> 63

<211> 151

<212> PRT

<213> Homo sapiens

<400> 63

Met Asn Gly Leu Leu Leu Phe Pro His Thr Phe Ile Leu Ser Met Val
1 5 10 15

Phe Pro Thr Ser Leu Ala Ile Gln Leu Leu Phe Leu Leu Pro Lys Met
20 25 30

Ser Glu His Ser Leu Ser Val Gln Leu Ser Pro His Leu Thr Ser Ser

35 40 45
 Leu Arg Met Phe Phe Cys Cys Tyr His Ser Phe Ser Ser Tyr Glu Phe
 50 55 60
 Leu Cys Tyr Ile Ala Ser Pro Ser Leu Arg Leu Ala Phe Leu His Ser
 65 70 75 80
 Leu Phe Gln Leu Thr His Phe Leu Ser Pro Asn Leu Val Ser Ser Ser
 85 90 95
 Arg Thr Leu Ile Leu Tyr Phe Cys Phe Leu Phe Lys Gln Cys Leu Ala
 100 105 110
 Lys Arg Gln Glu Trp Gln Ser Met Asn Thr Gln Ile Asp Met Arg Ile
 115 120 125
 Cys Leu Gly Pro Cys Ile Phe Met Tyr Ile Leu Ser Ser Ser Ile Leu
 130 135 140
 Leu Asn Glu Phe Ile Leu His
 145 150

 <210> 64
 <211> 424
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (268)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (316)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (318)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 64
 Met Leu Phe Cys Leu Gly Ile Phe Leu Ser Phe Tyr Leu Leu Thr Val
 1 5 10 15
 Leu Leu Ala Cys Trp Glu Asn Trp Arg Gln Lys Lys Lys Thr Leu Leu
 20 25 30
 Val Ala Ile Asp Arg Ala Cys Pro Glu Ser Gly His Pro Arg Val Leu
 35 40 45
 Ala Asp Ser Phe Pro Gly Ser Ser Pro Tyr Glu Gly Tyr Asn Tyr Gly
 50 55 60
 Ser Phe Glu Asn Val Ser Gly Ser Thr Asp Gly Leu Val Asp Ser Ala
 65 70 75 80
 Gly Thr Gly Asp Leu Ser Tyr Gly Tyr Gln Gly Arg Ser Phe Glu Pro

85										90					95				
Val	Gly	Thr	Arg	Pro	Arg	Val	Asp	Ser	Met	Ser	Ser	Val	Glu	Glu	Asp				
			100					105					110						
Asp	Tyr	Asp	Thr	Leu	Thr	Asp	Ile	Asp	Ser	Asp	Lys	Asn	Val	Ile	Arg				
		115					120					125							
Thr	Lys	Gln	Tyr	Leu	Tyr	Val	Ala	Asp	Leu	Ala	Arg	Lys	Asp	Lys	Arg				
	130					135					140								
Val	Leu	Arg	Lys	Lys	Tyr	Gln	Ile	Tyr	Phe	Trp	Asn	Ile	Ala	Thr	Ile				
145					150					155					160				
Ala	Val	Phe	Tyr	Ala	Leu	Pro	Val	Val	Gln	Leu	Val	Ile	Thr	Tyr	Gln				
			165						170						175				
Thr	Val	Val	Asn	Val	Thr	Gly	Asn	Gln	Asp	Ile	Cys	Tyr	Tyr	Asn	Phe				
			180					185						190					
Leu	Cys	Ala	His	Pro	Leu	Gly	Asn	Leu	Ser	Leu	Pro	Cys	Val	Ala	Pro				
		195					200					205							
Ser	Ser	Ala	Phe	Asn	Asn	Ile	Leu	Ser	Asn	Leu	Gly	Tyr	Ile	Leu	Leu				
	210					215					220								
Gly	Leu	Leu	Phe	Leu	Leu	Ile	Ile	Leu	Gln	Arg	Glu	Ile	Asn	His	Asn				
225					230				235					240					
Arg	Ala	Leu	Leu	Arg	Asn	Asp	Leu	Cys	Ala	Leu	Glu	Cys	Gly	Ile	Pro				
				245					250					255					
Lys	His	Phe	Gly	Leu	Phe	Tyr	Ala	Met	Gly	Thr	Xaa	Leu	Met	Met	Glu				
			260					265					270						
Gly	Leu	Leu	Ser	Ala	Cys	Tyr	His	Val	Cys	Pro	Asn	Tyr	Thr	Asn	Phe				
	275						280					285							
Gln	Phe	Asp	Thr	Ser	Phe	Met	Tyr	Met	Ile	Ala	Gly	Leu	Cys	Met	Leu				
	290					295					300								
Lys	Leu	Tyr	Gln	Lys	Arg	His	Pro	Asp	Ile	Asn	Xaa	Ser	Xaa	Tyr	Ser				
305					310					315				320					
Ala	Tyr	Ala	Cys	Leu	Ala	Ile	Val	Ile	Phe	Phe	Ser	Val	Leu	Gly	Val				
			325						330					335					
Val	Phe	Gly	Lys	Gly	Asn	Thr	Ala	Phe	Trp	Ile	Val	Phe	Ser	Ile	Ile				
			340					345					350						
His	Ile	Ile	Ala	Thr	Leu	Leu	Leu	Ser	Thr	Gln	Leu	Tyr	Tyr	Met	Gly				
	355						360					365							
Arg	Trp	Lys	Leu	Asp	Ser	Gly	Ile	Phe	Arg	Arg	Ile	Leu	His	Val	Leu				
	370					375					380								
Tyr	Thr	Asp	Cys	Ile	Arg	Gln	Cys	Ser	Gly	Ala	Ala	Leu	Arg	Gly	Pro				
385					390					395				400					
His	Gly	Ala	Ala	Gly	His	Gly	Gln	Arg	His	Gln	Leu	Val	Ala	Gly	Cys				
			405					410					415						

Leu Trp Ala Tyr His Ala Pro Gln
420

<210> 65
<211> 290
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (166)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (268)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (272)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 65
Met Pro Leu Leu Thr Leu Tyr Leu Leu Leu Phe Trp Leu Ser Gly Tyr
1 5 10 15
Ser Ile Ala Thr Gln Ile Thr Gly Pro Thr Thr Val Asn Gly Leu Glu
20 25 30
Arg Gly Ser Leu Thr Val Gln Cys Val Tyr Arg Ser Gly Trp Glu Thr
35 40 45
Tyr Leu Lys Trp Trp Cys Arg Gly Ala Ile Trp Arg Asp Cys Lys Ile
50 55 60
Leu Val Lys Thr Ser Gly Ser Glu Gln Glu Val Lys Arg Asp Arg Val
65 70 75 80
Ser Ile Lys Asp Asn Gln Lys Asn Arg Thr Phe Thr Val Thr Met Glu
85 90 95
Asp Leu Met Lys Thr Asp Ala Asp Thr Tyr Trp Cys Gly Ile Glu Lys
100 105 110
Thr Gly Asn Asp Leu Gly Val Thr Val Gln Val Thr Ile Asp Pro Ala
115 120 125
Pro Val Thr Gln Glu Glu Thr Ser Ser Ser Pro Thr Leu Thr Gly His
130 135 140
His Leu Asp Asn Arg His Lys Leu Leu Lys Leu Ser Val Leu Leu Pro
145 150 155 160
Leu Ile Phe Thr Ile Xaa Leu Leu Leu Leu Val Ala Ala Ser Leu Leu
165 170 175
Ala Trp Arg Met Met Lys Tyr Gln Gln Lys Ala Ala Gly Met Ser Pro
180 185 190

Glu Gln Val Leu Gln Pro Leu Glu Gly Asp Leu Cys Tyr Ala Asp Leu
195 200 205

Thr Leu Gln Leu Ala Gly Thr Ser Pro Arg Lys Ala Thr Thr Lys Leu
210 215 220

Ser Ser Ala Gln Val Asp Gln Val Glu Val Glu Tyr Val Thr Met Ala
225 230 235 240

Ser Leu Pro Lys Glu Asp Ile Ser Tyr Ala Ser Leu Thr Leu Gly Ala
245 250 255

Glu Asp Gln Glu Pro Thr Tyr Cys Asn Met Gly Xaa Leu Ser Ser Xaa
260 265 270

Leu Pro Gly Arg Gly Pro Glu Glu Pro Thr Glu Tyr Ser Thr Ile Ser
275 280 285

Arg Pro
290

<210> 66
<211> 118
<212> PRT
<213> Homo sapiens

<400> 66
Met Pro Gly Pro Ala Ser Pro Ala Gly Trp Phe Leu Leu Leu Leu Tyr
1 5 10 15

Pro Leu Pro Pro Ala Pro Cys Leu Val Pro Trp Gly Ser Pro Pro Gly
20 25 30

Thr Pro Ala Arg Pro Pro Ala Ala Gly His Pro His Arg Leu Pro Ala
35 40 45

Val His Ala Pro Leu Val Gly Asp Leu Ala Pro Pro Cys Pro Leu Thr
50 55 60

Ala Arg Leu Ala Pro Ala Pro Ala Thr Val Ser Asp Phe Ala Pro Trp
65 70 75 80

Ala Arg Ser Pro Asp Ser Cys Ser Ala Ala Asn Ser Trp Gly Leu Leu
85 90 95

Cys His Pro Gly Gly Thr Cys Gln Pro Leu Val Pro Gly Pro Gly Ser
100 105 110

Ala Ser Leu Gly Asp Leu
115

<210> 67
<211> 377
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (164)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (213)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 67

Met	Ala	Thr	Ala	Met	Asp	Trp	Leu	Pro	Trp	Ser	Leu	Leu	Leu	Phe	Ser
1				5					10					15	

Leu	Met	Cys	Glu	Thr	Ser	Ala	Phe	Tyr	Val	Pro	Gly	Val	Ala	Pro	Ile
			20					25					30		

Asn	Phe	His	Gln	Asn	Asp	Pro	Val	Glu	Ile	Lys	Ala	Val	Lys	Leu	Thr
		35					40					45			

Ser	Ser	Arg	Thr	Gln	Leu	Pro	Tyr	Glu	Tyr	Tyr	Ser	Leu	Pro	Phe	Cys
	50					55					60				

Gln	Pro	Ser	Lys	Ile	Thr	Tyr	Lys	Ala	Glu	Asn	Leu	Gly	Glu	Val	Leu
65					70					75					80

Arg	Gly	Asp	Arg	Ile	Val	Asn	Thr	Pro	Phe	Gln	Val	Leu	Met	Asn	Ser
				85					90					95	

Glu	Lys	Lys	Cys	Glu	Val	Leu	Cys	Ser	Gln	Ser	Asn	Lys	Pro	Val	Thr
			100					105					110		

Leu	Thr	Val	Glu	Gln	Ser	Arg	Leu	Val	Ala	Glu	Arg	Ile	Thr	Glu	Asp
		115					120					125			

Tyr	Tyr	Val	His	Leu	Ile	Ala	Asp	Asn	Leu	Pro	Val	Ala	Thr	Arg	Leu
	130					135					140				

Glu	Leu	Tyr	Ser	Asn	Arg	Asp	Ser	Asp	Asp	Lys	Lys	Lys	Glu	Ser	Asp
145					150					155					160

Ile	Lys	Trp	Xaa	Ser	Arg	Trp	Asp	Thr	Tyr	Leu	Thr	Met	Ser	Asp	Val
				165					170					175	

Gln	Ile	His	Trp	Phe	Ser	Ile	Ile	Asn	Ser	Val	Val	Val	Val	Phe	Phe
		180						185					190		

Leu	Ser	Gly	Ile	Leu	Ser	Met	Ile	Ile	Ile	Arg	Thr	Leu	Arg	Lys	Asp
		195					200					205			

Ile	Ala	Asn	Tyr	Xaa	Lys	Glu	Asp	Asp	Ile	Glu	Asp	Thr	Met	Glu	Glu
	210					215					220				

Ser	Gly	Trp	Lys	Leu	Val	His	Gly	Asp	Val	Phe	Arg	Pro	Pro	Pro	Val
225					230					235					240

Pro	His	Asp	Pro	Gln	Leu	Pro	Ala	Gly	Leu	Arg	His	Ser	Ala	Val	Leu
				245					250					255	

Tyr	Asp	Pro	His	Arg	His	Leu	Cys	Ser	His	Ala	Trp	Asp	Ala	Val	Ala
			260					265					270		

Leu	Gln	Pro	Gly	Ser	Ser	His	Asp	His	Ser	Leu	Leu	Pro	Leu	His	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

275 280 285
 His Gly Gly Val Trp Arg Ile Phe Cys Trp Pro Ser Val Pro His Phe
 290 295 300
 Lys Arg Pro Ser Val Glu Glu Arg Ser Leu Leu Tyr Gly Asn Ser Val
 305 310 315 320
 Pro Trp Cys Gly Phe Trp His Leu Leu Arg Ile Glu Leu Leu His Leu
 325 330 335
 Gly Lys Ala Leu Ile Arg Ser Gly Ala Leu Ser His His Gly Gly Ser
 340 345 350
 Ala Val His Val Val Arg Asp Leu Pro Ala Pro Arg Leu Leu Gly Leu
 355 360 365
 Leu Leu Arg Leu Pro Lys Ala Ala Ile
 370 375

<210> 68
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 68
 Met Trp Phe Leu His Trp Thr Leu Leu Gly Tyr Gly Pro Ala Gln Ile
 1 5 10 15
 Leu Gly Met Trp Ala Val Ala Pro Leu Lys His Gln Trp Ala Glu Asp
 20 25 30
 Glu Ser Trp Tyr Pro Pro Gly Thr Pro Pro Ser Ala Leu His Phe Thr
 35 40 45
 Cys Asp Pro Gly Thr Ser Tyr
 50 55

<210> 69
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 69
 Met Phe Tyr Leu Phe Leu Val Leu Val Val Leu Pro Leu Leu His Lys
 1 5 10 15
 Glu Leu Cys Ser Ile Glu Arg Pro Val Tyr Pro Cys Leu Phe Val Ile
 20 25 30
 Ser Gly Lys Ser Ser Met Ser Ser Phe Leu Cys Gln Phe Arg Trp Lys
 35 40 45
 Phe Trp Gly Arg Arg Glu Asp Gly Glu Lys Val Gln Asn Lys Ser Met
 50 55 60
 Leu Gly Glu Ile Ser Gln Cys Ser Ala Trp Asp Tyr Tyr Thr Cys Val
 65 70 75 80

Ala Ala Leu Lys Leu Gly Leu
85

<210> 70

<211> 576

<212> PRT

<213> Homo sapiens

<400> 70

Met Ile Val Phe Gly Trp Ala Val Phe Leu Ala Ser Arg Ser Leu Gly
1 5 10 15

Gln Gly Leu Leu Leu Thr Leu Glu Glu His Ile Ala His Phe Leu Gly
20 25 30

Thr Gly Gly Ala Ala Thr Thr Met Gly Asn Ser Cys Ile Cys Arg Asp
35 40 45

Asp Ser Gly Thr Asp Asp Ser Val Asp Thr Gln Gln Gln Gln Ala Glu
50 55 60

Asn Ser Ala Val Pro Thr Ala Asp Thr Arg Ser Gln Pro Arg Asp Pro
65 70 75 80

Val Arg Pro Pro Arg Arg Gly Arg Gly Pro His Glu Pro Arg Arg Lys
85 90 95

Lys Gln Asn Val Asp Gly Leu Val Leu Asp Thr Leu Ala Val Ile Arg
100 105 110

Thr Leu Val Asp Asn Asp Gln Glu Pro Pro Tyr Ser Met Ile Thr Leu
115 120 125

His Glu Met Ala Glu Thr Asp Glu Gly Trp Leu Asp Val Val Gln Ser
130 135 140

Leu Ile Arg Val Ile Pro Leu Glu Asp Pro Leu Gly Pro Ala Val Ile
145 150 155 160

Thr Leu Leu Leu Asp Glu Cys Pro Leu Pro Thr Lys Asp Ala Leu Gln
165 170 175

Lys Leu Thr Glu Ile Leu Asn Leu Asn Gly Glu Val Ala Cys Gln Asp
180 185 190

Ser Ser His Pro Ala Lys His Arg Asn Thr Ser Ala Val Leu Gly Cys
195 200 205

Leu Ala Glu Lys Leu Ala Gly Pro Ala Ser Ile Gly Leu Leu Ser Pro
210 215 220

Gly Ile Leu Glu Tyr Leu Leu Gln Cys Leu Lys Leu Gln Ser His Pro
225 230 235 240

Thr Val Met Leu Phe Ala Leu Ile Ala Leu Glu Lys Phe Ala Gln Thr
245 250 255

Ser Glu Asn Lys Leu Thr Ile Ser Glu Ser Ser Ile Ser Asp Arg Leu
260 265 270

Val Thr Leu Glu Ser Trp Ala Asn Asp Pro Asp Tyr Leu Lys Arg Gln
275 280 285

Val Gly Phe Cys Ala Gln Trp Ser Leu Asp Asn Leu Phe Leu Lys Glu
290 295 300

Gly Arg Gln Leu Thr Tyr Glu Lys Val Asn Leu Ser Ser Ile Arg Ala
305 310 315 320

Met Leu Asn Ser Asn Asp Val Ser Glu Tyr Leu Lys Ile Ser Pro His
325 330 335

Gly Leu Glu Ala Arg Cys Asp Ala Ser Ser Phe Glu Ser Val Arg Cys
340 345 350

Thr Phe Cys Val Asp Ala Gly Val Trp Tyr Tyr Glu Val Thr Val Val
355 360 365

Thr Ser Gly Val Met Gln Ile Gly Trp Ala Thr Arg Asp Ser Lys Phe
370 375 380

Leu Asn His Glu Gly Tyr Gly Ile Gly Asp Asp Glu Tyr Ser Cys Ala
385 390 395 400

Tyr Asp Gly Cys Arg Gln Leu Ile Trp Tyr Asn Ala Arg Ser Lys Pro
405 410 415

His Ile His Pro Cys Trp Lys Glu Gly Asp Thr Val Gly Phe Leu Leu
420 425 430

Asp Leu Asn Glu Lys Gln Met Ile Phe Phe Leu Asn Gly Asn Gln Leu
435 440 445

Pro Pro Glu Lys Gln Val Phe Ser Ser Thr Val Ser Gly Phe Phe Ala
450 455 460

Ala Ala Ser Phe Met Ser Tyr Gln Gln Cys Glu Phe Asn Phe Gly Ala
465 470 475 480

Lys Pro Phe Lys Tyr Pro Pro Ser Met Lys Phe Ser Thr Phe Asn Asp
485 490 495

Tyr Ala Phe Leu Thr Ala Glu Glu Lys Ile Ile Leu Pro Arg His Arg
500 505 510

Arg Leu Ala Leu Leu Lys Gln Val Ser Ile Arg Glu Asn Cys Cys Ser
515 520 525

Leu Cys Cys Asp Glu Val Ala Asp Thr Gln Leu Lys Pro Cys Gly His
530 535 540

Ser Asp Leu Cys Met Asp Cys Ala Leu Gln Leu Glu Thr Cys Pro Leu
545 550 555 560

Cys Arg Lys Glu Ile Val Ser Arg Ile Arg Gln Ile Ser His Ile Ser
565 570 575

<210> 71
 <211> 384
 <212> PRT
 <213> Homo sapiens

<400> 71

Met	Ala	Arg	Ala	Leu	Val	Gln	Leu	Trp	Ala	Ile	Cys	Met	Leu	Arg	Val
1				5				10						15	
Ala	Leu	Ala	Thr	Val	Tyr	Phe	Gln	Glu	Glu	Phe	Leu	Asp	Gly	Glu	His
			20					25					30		
Trp	Arg	Asn	Arg	Trp	Leu	Gln	Ser	Thr	Asn	Asp	Ser	Arg	Phe	Gly	His
		35					40					45			
Phe	Arg	Leu	Ser	Ser	Gly	Lys	Phe	Tyr	Gly	His	Lys	Glu	Lys	Asp	Lys
	50					55					60				
Gly	Leu	Gln	Thr	Thr	Gln	Asn	Gly	Arg	Phe	Tyr	Ala	Ile	Ser	Ala	Arg
65					70					75					80
Phe	Lys	Pro	Phe	Ser	Asn	Lys	Gly	Lys	Thr	Leu	Val	Ile	Gln	Tyr	Thr
				85					90						95
Val	Lys	His	Glu	Gln	Lys	Met	Asp	Cys	Gly	Gly	Gly	Tyr	Ile	Lys	Val
			100					105					110		
Phe	Pro	Ala	Asp	Ile	Asp	Gln	Lys	Asn	Leu	Asn	Gly	Lys	Ser	Gln	Tyr
		115					120					125			
Tyr	Ile	Met	Phe	Gly	Pro	Asp	Ile	Cys	Gly	Phe	Asp	Ile	Lys	Lys	Val
	130					135					140				
His	Val	Ile	Leu	His	Phe	Lys	Asn	Lys	Tyr	His	Glu	Asn	Lys	Lys	Leu
145					150					155					160
Ile	Arg	Cys	Lys	Val	Asp	Gly	Phe	Thr	His	Leu	Tyr	Thr	Leu	Ile	Leu
				165					170					175	
Arg	Pro	Asp	Leu	Ser	Tyr	Asp	Val	Lys	Ile	Asp	Gly	Gln	Ser	Ile	Glu
			180					185					190		
Ser	Gly	Ser	Ile	Glu	Tyr	Asp	Trp	Asn	Leu	Thr	Ser	Leu	Lys	Lys	Glu
		195					200					205			
Thr	Ser	Pro	Ala	Glu	Ser	Lys	Asp	Trp	Glu	Gln	Thr	Lys	Asp	Asn	Lys
		210				215						220			
Ala	Gln	Asp	Trp	Glu	Lys	His	Phe	Leu	Asp	Ala	Ser	Thr	Ser	Lys	Gln
225					230					235					240
Ser	Asp	Trp	Asn	Gly	Asp	Leu	Asp	Gly	Asp	Trp	Pro	Ala	Pro	Met	Leu
				245					250					255	
Gln	Lys	Pro	Pro	Tyr	Gln	Asp	Gly	Leu	Lys	Pro	Glu	Gly	Ile	His	Lys
			260					265					270		
Asp	Val	Trp	Leu	His	Arg	Lys	Met	Lys	Asn	Thr	Asp	Tyr	Leu	Thr	Gln
			275				280					285			
Tyr	Asp	Leu	Ser	Glu	Phe	Glu	Asn	Ile	Gly	Ala	Ile	Gly	Leu	Glu	Leu

290	295	300
Trp Gln Val Arg Ser Gly Thr Ile Phe Asp Asn Phe Leu Ile Thr Asp		
305	310	315 320
Asp Glu Glu Tyr Ala Asp Asn Phe Gly Lys Ala Thr Trp Gly Glu Thr		
	325	330 335
Lys Gly Pro Glu Arg Glu Met Asp Ala Ile Gln Ala Lys Glu Glu Met		
	340	345 350
Lys Lys Ala Arg Glu Glu Glu Glu Glu Glu Leu Leu Ser Gly Lys Ile		
	355	360 365
Asn Arg His Glu His Tyr Phe Asn Gln Phe His Arg Arg Asn Glu Leu		
	370	375 380

<210> 72
 <211> 341
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 72
 Met Val Pro Ala Ala Gly Ala Leu Leu Trp Val Leu Leu Leu Asn Leu
 1 5 10 15
 Gly Pro Arg Ala Ala Gly Ala Gln Gly Leu Thr Gln Thr Pro Thr Glu
 20 25 30
 Met Gln Arg Val Ser Leu Arg Phe Gly Gly Pro Met Thr Arg Ser Tyr
 35 40 45
 Arg Ser Xaa Ala Arg Thr Gly Leu Pro Arg Lys Thr Arg Ile Ile Leu
 50 55 60
 Glu Asp Xaa Asn Asp Ala Met Ala Asp Ala Asp Arg Leu Ala Gly Pro
 65 70 75 80
 Ala Ala Ala Glu Leu Leu Ala Ala Thr Val Ser Thr Gly Phe Ser Arg
 85 90 95
 Ser Ser Ala Ile Asn Glu Glu Asp Gly Ser Ser Glu Glu Gly Val Val
 100 105 110
 Ile Asn Ala Gly Lys Asp Ser Thr Ser Arg Glu Leu Pro Ser Ala Thr
 115 120 125

Pro Asn Thr Ala Gly Ser Ser Ser Thr Arg Phe Ile Ala Asn Ser Gln
 130 135 140
 Glu Pro Glu Ile Arg Leu Thr Ser Ser Leu Pro Arg Ser Pro Gly Arg
 145 150 155 160
 Ser Thr Glu Asp Leu Pro Gly Ser Gln Ala Thr Leu Ser Gln Trp Ser
 165 170 175
 Thr Pro Gly Ser Thr Pro Ser Arg Trp Pro Ser Pro Ser Pro Thr Ala
 180 185 190
 Met Pro Ser Pro Glu Asp Leu Arg Leu Val Leu Met Pro Trp Gly Pro
 195 200 205
 Trp His Cys His Cys Lys Ser Gly Thr Met Ser Arg Ser Arg Ser Gly
 210 215 220
 Lys Leu His Gly Leu Ser Gly Arg Leu Arg Val Gly Ala Leu Ser Gln
 225 230 235 240
 Leu Arg Thr Glu His Lys Pro Cys Thr Tyr Gln Gln Cys Pro Cys Asn
 245 250 255
 Arg Leu Arg Glu Glu Cys Pro Leu Asp Thr Ser Leu Cys Thr Asp Thr
 260 265 270
 Asn Cys Ala Ser Gln Ser Thr Thr Ser Thr Arg Thr Thr Thr Thr Pro
 275 280 285
 Phe Pro Thr Ile His Leu Arg Ser Ser Pro Ser Leu Pro Pro Ala Ser
 290 295 300
 Pro Cys Pro Ala Leu Ala Phe Trp Lys Arg Val Arg Ile Gly Leu Glu
 305 310 315 320
 Asp Ile Trp Asn Ser Leu Ser Ser Val Phe Thr Glu Met Gln Pro Ile
 325 330 335
 Asp Arg Asn Gln Arg
 340

<210> 73

<211> 246

<212> PRT

<213> Homo sapiens

<400> 73

Met Ala Leu Leu Leu Cys Leu Val Cys Leu Thr Ala Ala Leu Ala His
 1 5 10 15
 Gly Cys Leu His Cys His Ser Asn Phe Ser Lys Lys Phe Ser Phe Tyr
 20 25 30
 Arg His His Val Asn Phe Lys Ser Trp Trp Val Gly Asp Ile Pro Val
 35 40 45
 Ser Gly Ala Leu Leu Thr Asp Trp Ser Asp Asp Thr Met Lys Glu Leu
 50 55 60

His Leu Ala Ile Pro Ala Lys Ile Thr Arg Glu Lys Leu Asp Gln Val
 65 70 75 80
 Ala Thr Ala Val Tyr Gln Met Met Asp Gln Leu Tyr Gln Gly Lys Met
 85 90 95
 Tyr Phe Pro Gly Tyr Phe Pro Asn Glu Leu Arg Asn Ile Phe Arg Glu
 100 105 110
 Gln Val His Leu Ile Gln Asn Ala Ile Ile Glu Ser Arg Ile Asp Cys
 115 120 125
 Gln His Arg Cys Gly Lys Gln Gly Ser Val Gln Ala Glu Gly Arg Ala
 130 135 140
 Gly Gly Ser Ser Gly Pro Trp Arg Leu Arg Gly Ala Leu Ala Ala Leu
 145 150 155 160
 Val Arg Val Ser Gly Ile Phe Gln Tyr Glu Thr Ile Ser Cys Asn Asn
 165 170 175
 Cys Thr Asp Ser His Val Ala Cys Phe Gly Tyr Asn Cys Glu Ser Ser
 180 185 190
 Ala Gln Trp Lys Ser Ala Val Gln Gly Leu Leu Asn Tyr Ile Asn Asn
 195 200 205
 Trp His Lys Gln Asp Thr Ser Met Ser Leu Val Ser Pro Ala Leu Arg
 210 215 220
 Cys Leu Glu Pro Pro His Leu Ala Asn Leu Thr Leu Glu Asp Ala Ala
 225 230 235 240
 Glu Cys Leu Lys Gln His
 245

<210> 74
 <211> 153
 <212> PRT
 <213> Homo sapiens

<400> 74
 Met His Trp Leu Cys Val Ser Cys Ile Phe Thr Cys Leu Pro Gly Trp
 1 5 10 15
 Arg Pro Ala Ala Pro Asp Gln Gly Pro Ala Ala Ile Ser Leu Cys Ser
 20 25 30
 Leu Pro Ser Ser Ser Gln Gly His Arg Glu Pro Leu Ala Leu Gly Leu
 35 40 45
 Pro Ser Ala Leu Pro Pro Ala His Arg Gln Arg Leu Arg Gly Ser Ala
 50 55 60
 Thr Cys Gln Ala Gln Gly Lys Gln Arg Arg Val Gly Gly Arg Thr Arg
 65 70 75 80
 Leu Leu Gly Arg Gln Glu Trp Gly Val Ala Ser His Pro Thr Gly Gly
 85 90 95

Asp Gly Gly Gly Met Pro Gly Ala Met Pro Glu Gln Gly Arg Gly Leu
 100 105 110

Val Gln Pro Val Ala Val Ser Ser Arg Trp Asp Arg Gly His Ser Lys
 115 120 125

Ala Lys Gly Val Gly Arg Ala Gly Gly Val Ser Leu Val Leu Ala Glu
 130 135 140

Leu Pro Val Pro Thr Thr Ser Val Cys
 145 150

<210> 75
 <211> 458
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 75
 Met Lys Val Trp Gly Leu Ala Ala Ala Cys Phe Leu Leu Gln His His
 1 5 10 15

Gly Met Pro Ala Gln Phe Thr Leu Pro Pro Ala Pro Arg Asp Glu Thr
 20 25 30

Ser Pro Ala Asp Ala Val Cys Pro Gly Leu Gly Arg Asp Leu Cys Gly
 35 40 45

Ser Ser Arg Cys Cys Leu Arg Pro Pro Ser Gln Pro Asp Trp Lys Glu
 50 55 60

Pro Ser Gly Ala Xaa Cys Gly Pro Asp Arg Leu Arg Val Ala Gly Glu
 65 70 75 80

Val His Arg Phe Arg Thr Ser Asp Val Ser Gln Ala Thr Leu Ala Ser
 85 90 95

Val Ala Pro Val Phe Thr Val Thr Lys Phe Asp Lys Gln Gly Asn Val
 100 105 110

Thr Ser Phe Glu Arg Lys Lys Thr Glu Leu Tyr Gln Glu Leu Gly Leu
 115 120 125

Gln Ala Arg Asp Leu Arg Phe Gln His Val Met Ser Ile Thr Val Arg
 130 135 140

Asn Asn Arg Ile Ile Met Arg Met Glu Tyr Leu Lys Ala Val Ile Thr
 145 150 155 160

Pro Glu Cys Leu Leu Ile Leu Asp Tyr Arg Asn Leu Asn Leu Glu Gln
 165 170 175

Trp Leu Phe Arg Glu Leu Pro Ser Gln Leu Ser Gly Glu Gly Gln Leu
 180 185 190

Val Thr Tyr Pro Leu Pro Phe Glu Phe Arg Ala Ile Glu Ala Leu Leu

195					200					205						
Gln	Tyr	Trp	Ile	Asn	Thr	Leu	Gln	Gly	Lys	Leu	Ser	Ile	Leu	Gln	Pro	
210					215					220						
Leu	Ile	Leu	Glu	Thr	Leu	Asp	Ala	Leu	Val	Asp	Pro	Lys	His	Ser	Ser	
225					230					235					240	
Val	Asp	Arg	Ser	Lys	Leu	His	Ile	Leu	Leu	Gln	Asn	Gly	Lys	Ser	Leu	
245					250					255						
Ser	Glu	Leu	Glu	Thr	Asp	Ile	Lys	Ile	Phe	Lys	Glu	Ser	Ile	Leu	Glu	
260					265					270						
Ile	Leu	Asp	Glu	Glu	Glu	Leu	Leu	Glu	Glu	Leu	Cys	Val	Ser	Lys	Trp	
275					280					285						
Ser	Asp	Pro	Gln	Val	Phe	Glu	Lys	Ser	Ser	Ala	Gly	Ile	Asp	His	Ala	
290					295					300						
Glu	Glu	Met	Glu	Leu	Leu	Leu	Glu	Asn	Tyr	Tyr	Arg	Leu	Ala	Asp	Asp	
305					310					315					320	
Leu	Ser	Asn	Ala	Ala	Arg	Glu	Leu	Arg	Val	Leu	Ile	Asp	Asp	Ser	Gln	
325					330					335						
Ser	Ile	Ile	Phe	Ile	Asn	Leu	Asp	Ser	His	Arg	Asn	Val	Met	Met	Arg	
340					345					350						
Leu	Asn	Leu	Gln	Leu	Thr	Met	Gly	Thr	Phe	Ser	Leu	Ser	Leu	Phe	Gly	
355					360					365						
Leu	Met	Gly	Val	Ala	Phe	Gly	Met	Asn	Leu	Glu	Ser	Ser	Leu	Glu	Glu	
370					375					380						
Asp	His	Arg	Ile	Phe	Trp	Leu	Ile	Thr	Gly	Ile	Met	Phe	Met	Gly	Ser	
385					390					395					400	
Gly	Leu	Ile	Trp	Arg	Arg	Leu	Leu	Ser	Phe	Leu	Gly	Arg	Gln	Leu	Glu	
405					410					415						
Ala	Pro	Leu	Pro	Pro	Met	Met	Ala	Ser	Leu	Pro	Lys	Lys	Thr	Leu	Leu	
420					425					430						
Ala	Asp	Arg	Ser	Met	Glu	Leu	Lys	Asn	Ser	Leu	Arg	Leu	Asp	Gly	Leu	
435					440					445						
Gly	Ser	Gly	Arg	Ser	Ile	Leu	Thr	Asn	Arg							
450					455											

<210> 76

<211> 164

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 76

Met Arg Leu Leu Arg Arg Arg His Met Pro Leu Arg Leu Ala Met Val
 1 5 10 15

Gly Cys Ala Phe Val Leu Phe Leu Phe Leu Leu His Arg Asp Val Ser
 20 25 30

Ser Arg Glu Glu Ala Thr Glu Lys Pro Trp Leu Lys Ser Leu Val Ser
 35 40 45

Arg Lys Asp His Val Leu Asp Leu Met Leu Glu Ala Met Asn Asn Leu
 50 55 60

Arg Asp Ser Met Pro Lys Leu Gln Ile Arg Ala Pro Glu Ala Gln Gln
 65 70 75 80

Thr Leu Phe Ser Ile Asn Gln Ser Cys Leu Pro Gly Phe Tyr Thr Pro
 85 90 95

Ala Glu Leu Lys Pro Phe Trp Glu Arg Pro Pro Gln Asp Pro Asn Ala
 100 105 110

Pro Gly Ala Asp Gly Lys Ala Phe Gln Lys Ser Lys Trp Thr Pro Leu
 115 120 125

Glu Thr Gln Glu Lys Glu Glu Gly Tyr Lys Lys His Cys Phe Asn Ala
 130 135 140

Phe Ala Ser Asp Arg Ile Ser Leu Gln Xaa Ser Leu Gly Pro Asp Thr
 145 150 155 160

Arg Pro Pro Glu

<210> 77

<211> 90

<212> PRT

<213> Homo sapiens

<400> 77

Met Ala Leu Arg His Leu Ala Leu Leu Ala Gly Leu Leu Val Gly Val
 1 5 10 15

Ala Ser Lys Ser Met Glu Asn Thr Ala Gln Leu Pro Glu Cys Cys Val
 20 25 30

Asp Val Val Gly Val Asn Ala Ser Cys Pro Gly Ala Ser Leu Cys Gly
 35 40 45

Pro Gly Cys Tyr Arg Arg Trp Asn Ala Asp Gly Ser Ala Thr Ala Ser
 50 55 60

Ala Val Gly Thr Glu Pro Ser Gln Pro Thr Thr Ala Pro Ser Val Glu
 65 70 75 80

Ala Leu Leu Ala Arg Val Arg His Ser Pro
 85 90

<210> 78

<211> 44
 <212> PRT
 <213> Homo sapiens

<400> 78
 Met Gly Trp Leu Trp Leu Glu Leu Leu Gly Leu Ser Ile Glu Glu Thr
 1 5 10 15
 Leu Val Trp Ala Phe Leu Asn Lys Phe Leu Asp Ser Ser Ala Ala Leu
 20 25 30
 Leu Trp Arg Ile Leu Gly Lys Ser Asn Leu Ser Thr
 35 40

<210> 79
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 79
 Met Glu Arg Pro Ala Ser Leu Trp Ala Ser Val Ser Ile Leu Phe Thr
 1 5 10 15
 Ser Trp Gly Leu Ala Leu Pro Ser Leu Gln Val Ala Ser Leu Ser Asp
 20 25 30
 Ser Ser Pro His Pro Pro Leu Leu Gly Pro Ser Arg Pro Ile Arg
 35 40 45

<210> 80
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 80
 Met Pro Arg Trp Leu Ser Leu Leu Ala Leu Thr Ser Leu Thr Gly Ile
 1 5 10 15
 Leu Ser Gly Thr Leu Gly Phe Ser Pro His Gly Trp Ser Ser Pro Arg
 20 25 30
 Arg His Leu Ser Pro Arg Pro Glu Cys Pro Ala Ala Ser Gln Thr Thr
 35 40 45
 Cys Lys Ser Leu Gly Gln His
 50 55

<210> 81
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 81
 Met Gly Pro Cys Arg Ala Ser Arg Cys Leu Ser Leu Leu Val Leu Phe
 1 5 10 15
 Pro Pro Gly Val Ala Gly Arg Pro Ala Pro Gly Arg Leu His Pro Val
 20 25 30

Pro Thr Gly Pro Leu Pro Arg Met Tyr Ser Ala Gly Ala Arg Gly Arg
 35 40 45

His Gly Ala His
 50

<210> 82

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 82

Met Ala Gly Arg Arg Leu Asn Leu Arg Trp Ala Leu Ser Val Leu Xaa
 1 5 10 15

Val Leu Leu Met Ala Glu Thr Val Ser Gly Thr Arg Gly Ser Ser Thr
 20 25 30

Gly Ala His Ile Ser Pro Gln Phe Pro Ala Ser Gly Val Asn Gln Thr
 35 40 45

Pro Val Val Asp Val Thr Trp Ala Cys Met Cys Ser Met Trp Ser Leu
 50 55 60

<210> 83

<211> 81

<212> PRT

<213> Homo sapiens

<400> 83

Met Ser Leu Thr Val Phe His Phe Leu Leu Leu Ala Leu Leu Pro Ile
 1 5 10 15

Ser Leu Met Ser Thr Leu Gln Ser Ile Phe Arg Asn Ser Asp Thr Leu
 20 25 30

Ile Ile Glu Ala Ala Asp Phe Val Pro Val Arg Phe Leu Asn Gln Trp
 35 40 45

Phe Met Ile Pro Val Asp Ile Ser Ser Leu Ser Lys Leu Gly Val Ser
 50 55 60

Lys Leu Phe Leu Leu Arg Ala Arg Gln Tyr Gln Ala Trp Gly Thr Ala
 65 70 75 80

Ser

<210> 84

<211> 43
 <212> PRT
 <213> Homo sapiens

<400> 84
 Met Arg Ser Asp Gly Phe Ile Arg Thr Phe Cys Phe Gly Ile Phe Leu
 1 5 10 15
 Ile Phe Leu Leu Leu Ser Leu Cys Lys Lys Cys Leu Leu Pro Pro Ala
 20 25 30
 Met Ile Leu Arg Pro Pro Ser His Val Glu Leu
 35 40

<210> 85
 <211> 63
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (52)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 85
 Met Glu Cys Gly Leu Pro Lys Phe Ala Gly Cys Leu Phe Met Ile Leu
 1 5 10 15
 Cys Leu Trp Asn Cys Pro Glu Ala Met Glu Cys Glu Asp Gly Phe His
 20 25 30
 Cys Ser Ser Val Gly Leu Leu Val Phe Ala Ser Ile Phe Tyr Asn Lys
 35 40 45
 Lys Xaa Glu Xaa Cys Trp Ile Ile Gln Gly Tyr Ile Leu Ala Ser
 50 55 60

<210> 86
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 86
 Met Leu Ile Pro Gly Phe Leu Leu Pro Val Val Thr Leu Leu Ser Thr
 1 5 10 15
 Ala Ser Ile Thr Gly Ala Leu Gly Leu Asn Thr Ser Ala Ile Ser Pro
 20 25 30
 Phe Val Ser Ser Met Asp Thr Val Asn Asn Gly Leu Ser Thr Pro Ala
 35 40 45
 Leu Cys Gln Ser Gln Gly Val Gly Trp Gly Asp Thr Glu Glu Asn Ile
 50 55 60

Phe Leu Leu Asp Ala Cys Cys Ala Asn Ser Pro Leu
 65 70 75

<210> 87
 <211> 163
 <212> PRT
 <213> Homo sapiens

<400> 87
 Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala Leu Cys
 1 5 10 15
 Leu Thr Gly Leu Val Leu Ser Leu Tyr Ala Leu His Val Lys Ala Ala
 20 25 30
 Arg Ala Arg Asp Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly Thr Ala
 35 40 45
 Ile Ser Cys Ser Arg Val Phe Ser Ser Arg Trp Gly Arg Gly Phe Gly
 50 55 60
 Leu Val Glu His Val Leu Gly Gln Asp Ser Ile Leu Asn Gln Ser Asn
 65 70 75 80
 Ser Ile Phe Gly Cys Ile Phe Tyr Thr Leu Gln Leu Leu Leu Gly Cys
 85 90 95
 Leu Arg Thr Arg Trp Ala Ser Val Leu Met Leu Leu Ser Ser Leu Val
 100 105 110
 Ser Leu Ala Gly Ser Val Tyr Leu Ala Trp Ile Leu Phe Phe Val Leu
 115 120 125
 Tyr Asp Phe Cys Ile Val Cys Ile Thr Thr Tyr Ala Ile Asn Val Ser
 130 135 140
 Leu Met Trp Leu Ser Phe Arg Lys Val Gln Glu Pro Gln Gly Lys Ala
 145 150 155 160
 Lys Arg His

<210> 88
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 88
 Met Gln Pro Trp Ala Gly Leu Cys Pro Leu Leu Val Leu Trp Ile Ser
 1 5 10 15
 Gly His Leu His Cys Ile Ser Ala Leu Leu Gln Glu Arg Gly Val Gly
 20 25 30
 Val Ser Leu Ser Ser Arg Ser Asp Ala Cys Lys Ala Ala His Arg Ile
 35 40 45
 Gly Thr Ser Ser Ser

50

<210> 89
 <211> 422
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (19)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (277)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (278)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 89
 Met Ile Tyr Lys Met Asp Cys Leu Xaa Arg Val Glu Asn Phe Leu Glu
 1 5 10 15

Pro Leu Xaa Asn Trp Asn Glu Ala Trp Arg Glu Tyr Asp Lys Leu Glu
 20 25 30

Tyr Asp Val Thr Xaa Thr Arg Asn Gln Met Gln Glu Gln Leu Asp His
 35 40 45

Leu Gly Glu Val Gln Thr Glu Ser Ala Gly Ile Gln Arg Ala Gln Ile
 50 55 60

Gln Lys Glu Leu Trp Arg Ile Gln Asp Val Met Glu Gly Leu Ser Lys
 65 70 75 80

His Lys Gln Gln Arg Gly Thr Thr Glu Ile Gly Met Ile Gly Ser Lys
 85 90 95

Pro Phe Ser Thr Val Lys Tyr Lys Asn Glu Gly Pro Asp Tyr Arg Leu
 100 105 110

Tyr Lys Ser Glu Pro Glu Leu Thr Thr Val Ala Glu Val Asp Glu Ser
 115 120 125

Asn Gly Glu Glu Lys Ser Glu Pro Val Ser Glu Ile Glu Thr Ser Val
 130 135 140

Val Lys Gly Ser His Phe Pro Val Gly Val Val Pro Pro Arg Ala Lys
145 150 155 160

Ser Pro Thr Pro Glu Ser Ser Thr Ile Ala Ser Tyr Val Thr Leu Arg
165 170 175

Lys Thr Lys Lys Met Met Asp Leu Arg Thr Glu Arg Pro Arg Ser Ala
180 185 190

Val Glu Gln Leu Cys Leu Ala Glu Ser Thr Arg Pro Arg Met Thr Val
195 200 205

Glu Glu Gln Met Glu Arg Ile Arg Arg His Gln Gln Ala Cys Leu Arg
210 215 220

Glu Lys Lys Lys Gly Leu Asn Val Ile Gly Ala Ser Asp Gln Ser Pro
225 230 235 240

Leu Gln Ser Pro Ser Asn Leu Arg Asp Asn Pro Phe Arg Thr Thr Gln
245 250 255

Thr Arg Arg Arg Asp Asp Lys Glu Leu Asp Thr Ala Ile Arg Glu Asn
260 265 270

Asp Val Lys Pro Xaa Xaa Glu Thr Pro Ala Thr Glu Ile Val Gln Leu
275 280 285

Lys Glu Thr Glu Pro Gln Asn Val Asp Phe Ser Lys Glu Leu Lys Lys
290 295 300

Thr Glu Asn Ile Ser Tyr Glu Met Leu Phe Glu Pro Glu Pro Asn Gly
305 310 315 320

Val Asn Ser Val Glu Met Met Asp Lys Glu Arg Asn Lys Asp Lys Met
325 330 335

Pro Glu Asp Val Thr Phe Ser Pro Gln Asp Glu Thr Gln Thr Ala Asn
340 345 350

His Lys Pro Glu Glu His Pro Glu Glu Asn Thr Lys Asn Ser Val Asp
355 360 365

Glu Gln Glu Glu Thr Val Ile Ser Tyr Glu Ser Thr Pro Glu Val Ser
370 375 380

Arg Gly Asn Gln Thr Met Ala Val Lys Ser Leu Ser Pro Ser Pro Glu
385 390 395 400

Ser Ser Ala Ser Pro Val Pro Ser Thr Gln Pro Gln Leu Thr Glu Gly
405 410 415

Ser His Phe Met Cys Val
420

<210> 90

<211> 89

<212> PRT

<213> Homo sapiens

<400> 90

Met Ala Gly Ser Pro Thr Cys Leu Thr Leu Ile Tyr Ile Leu Trp Gln
 1 5 10 15
 Leu Thr Gly Ser Ala Ala Ser Gly Pro Val Lys Glu Leu Val Gly Ser
 20 25 30
 Val Gly Gly Ala Val Thr Phe Pro Leu Lys Ser Lys Val Lys Gln Val
 35 40 45
 Asp Ser Ile Val Trp Thr Phe Asn Thr Thr Pro Leu Val Thr Ile Gln
 50 55 60
 Pro Glu Gly Gly Thr Ile Ile Val Thr Gln Asn Arg Asn Arg Glu Arg
 65 70 75 80
 Val Asp Phe Pro Asp Gly Ala Thr Pro
 85

<210> 91
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 91
 Met Val Leu Leu Cys Leu Leu Leu Val Pro Leu Leu Leu Ser Leu Phe
 1 5 10 15
 Val Leu Gly Leu Phe Leu Trp Phe Leu Lys Arg Glu Arg Gln Glu Glu
 20 25 30
 Tyr Ile Glu Glu Lys Lys Arg Val Asp Ile Cys Arg Glu Thr Pro Asn
 35 40 45
 Ile Cys Pro His Ser Gly Glu Asn Thr Glu Tyr Asp Thr Ile Pro His
 50 55 60
 Thr Asn Arg Thr Ile Leu Lys Glu Asp Pro Ala Asn Thr Val Tyr Ser
 65 70 75 80
 Thr Val Glu Ile Pro Lys Lys Met Glu Asn Pro His Ser Leu Leu Thr
 85 90 95
 Met Pro Asp Thr Pro Arg Leu Phe Ala Tyr Glu Asn Val Ile
 100 105 110

<210> 92
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 92
 Met Lys Phe Val Pro Cys Leu Leu Leu Val Thr Leu Ser Cys Leu Gly
 1 5 10 15
 Thr Leu Gly Gln Ala Pro Arg Gln Lys Gln Gly Ser Thr Gly Glu Glu
 20 25 30
 Phe His Phe Gln Thr Gly Gly Arg Asp Ser Cys Thr Met Arg Pro Ser
 35 40 45

Ser Leu Gly Gln Gly Ala Gly Glu Val Trp Leu Arg Val Arg Leu Pro
 50 55 60

Gln His Arg Pro Asp Leu Leu Val
 65 70

<210> 93
 <211> 144
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (131)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (138)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 93
 Met Val Leu Leu Val Met Gly Asn Val Ile Asn Trp Ser Leu Ala Ala
 1 5 10 15

Tyr Gly Leu Ile Met Arg Pro Asn Asp Phe Ala Ser Tyr Leu Leu Ala
 20 25 30

Ile Gly Ile Cys Asn Leu Leu Leu Tyr Phe Ala Phe Tyr Ile Ile Met
 35 40 45

Lys Leu Arg Ser Gly Glu Arg Ile Lys Leu Ile Pro Leu Leu Cys Ile
 50 55 60

Val Cys Thr Ser Val Val Trp Gly Phe Ala Leu Phe Phe Phe Phe Gln
 65 70 75 80

Gly Leu Ser Thr Trp Gln Lys Thr Pro Ala Glu Ser Arg Glu His Asn
 85 90 95

Arg Asp Cys Ile Leu Leu Asp Phe Phe Asp Asp His Asp Ile Trp His
 100 105 110

Phe Leu Ser Ser Ile Ala Met Phe Gly Ser Phe Leu Val Leu Leu Thr
 115 120 125

Leu Asp Xaa Asp Leu Asp Thr Val Gln Xaa Asp Lys Ile Tyr Val Phe
 130 135 140

<210> 94
 <211> 144
 <212> PRT
 <213> Homo sapiens

<220>

<221> SITE
 <222> (131)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (138)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 94
 Met Val Leu Leu Val Met Gly Asn Val Ile Asn Trp Ser Leu Ala Ala
 1 5 10 15
 Tyr Gly Leu Ile Met Arg Pro Asn Asp Phe Ala Ser Tyr Leu Leu Ala
 20 25 30
 Ile Gly Ile Cys Asn Leu Leu Leu Tyr Phe Ala Phe Tyr Ile Ile Met
 35 40 45
 Lys Leu Arg Ser Gly Glu Arg Ile Lys Leu Ile Pro Leu Leu Cys Ile
 50 55 60
 Val Cys Thr Ser Val Val Trp Gly Phe Ala Leu Phe Phe Phe Phe Gln
 65 70 75 80
 Gly Leu Ser Thr Trp Gln Lys Thr Pro Ala Glu Ser Arg Glu His Asn
 85 90 95
 Arg Asp Cys Ile Leu Leu Asp Phe Phe Asp Asp His Asp Ile Trp His
 100 105 110
 Phe Leu Ser Ser Ile Ala Met Phe Gly Ser Phe Leu Val Leu Leu Thr
 115 120 125
 Leu Asp Xaa Asp Leu Asp Thr Val Gln Xaa Asp Lys Ile Tyr Val Phe
 130 135 140

<210> 95
 <211> 170
 <212> PRT
 <213> Homo sapiens

<400> 95
 Met Ala Thr Ala Met Asp Trp Leu Pro Trp Ser Leu Leu Leu Phe Ser
 1 5 10 15
 Leu Met Cys Glu Thr Ser Ala Phe Tyr Val Pro Gly Val Ala Pro Ile
 20 25 30
 Asn Phe His Gln Asn Asp Pro Val Glu Ile Lys Ala Val Lys Leu Thr
 35 40 45
 Ser Ser Arg Thr Gln Leu Pro Tyr Glu Tyr Tyr Ser Leu Pro Phe Cys
 50 55 60
 Gln Pro Ser Lys Ile Thr Tyr Lys Ala Glu Asn Leu Gly Glu Val Leu
 65 70 75 80

Arg Gly Asp Arg Ile Val Asn Thr Pro Phe Gln Val Leu Met Asn Ser
85 90 95

Glu Lys Lys Cys Glu Val Leu Cys Ser Gln Ser Asn Lys Pro Val Thr
100 105 110

Leu Thr Val Glu Gln Ser Arg Leu Val Ala Glu Arg Ile Thr Glu Asp
115 120 125

Tyr Tyr Val His Leu Ile Ala Asp Asn Leu Pro Val Ala Thr Arg Leu
130 135 140

Glu Leu Tyr Ser Asn Arg Asp Ser Asp Asp Lys Lys Lys Glu Ser Asp
145 150 155 160

Ile Lys Trp Ala Ser Arg Trp Asp Thr Tyr
165 170

<210> 96

<211> 286

<212> PRT

<213> Homo sapiens

<400> 96

Met Ile Leu Ile Val Ile Phe Val Ala Met Leu Gly Met Leu Ser Pro
1 5 10 15

Ser Ser Arg Gly Ala Leu Met Thr Thr Ala Cys Phe Leu Phe Met Phe
20 25 30

Met Gly Val Phe Gly Gly Phe Ser Ala Gly Arg Leu Tyr Arg Thr Leu
35 40 45

Lys Gly His Arg Trp Lys Lys Gly Ala Phe Cys Thr Ala Thr Leu Tyr
50 55 60

Pro Gly Val Val Phe Gly Ile Cys Phe Val Leu Asn Cys Phe Ile Trp
65 70 75 80

Gly Lys His Ser Ser Gly Ala Val Pro Phe Pro Thr Met Val Ala Leu
85 90 95

Leu Cys Met Trp Phe Gly Ile Ser Leu Pro Leu Val Tyr Leu Gly Tyr
100 105 110

Tyr Phe Gly Phe Arg Lys Gln Pro Tyr Asp Asn Pro Val Arg Thr Asn
115 120 125

Gln Ile Pro Arg Gln Ile Pro Glu Gln Arg Trp Tyr Met Asn Arg Phe
130 135 140

Val Gly Ile Leu Met Ala Gly Ile Leu Pro Phe Gly Ala Met Phe Ile
145 150 155 160

Glu Leu Phe Phe Ile Phe Ser Ala Ile Trp Glu Asn Gln Phe Tyr Tyr
165 170 175

Leu Phe Gly Phe Leu Phe Leu Val Phe Ile Ile Leu Val Val Ser Cys
180 185 190

Ser Gln Ile Ser Ile Val Met Val Tyr Phe Gln Leu Cys Ala Glu Asp
 195 200 205

Tyr Arg Trp Trp Trp Arg Asn Phe Leu Val Ser Gly Gly Ser Ala Phe
 210 215 220

Tyr Val Leu Val Tyr Ala Ile Phe Tyr Phe Val Asn Lys Leu Asp Ile
 225 230 235 240

Val Glu Phe Ile Pro Ser Leu Leu Tyr Phe Gly Tyr Thr Ala Leu Met
 245 250 255

Val Leu Ser Phe Trp Leu Leu Thr Gly Thr Ile Gly Phe Tyr Ala Ala
 260 265 270

Tyr Met Phe Val Arg Lys Ile Tyr Ala Ala Val Lys Ile Asp
 275 280 285

<210> 97

<211> 435

<212> PRT

<213> Homo sapiens

<400> 97

Met Ile Val Phe Gly Trp Ala Val Phe Leu Ala Ser Arg Ser Leu Gly
 1 5 10 15

Gln Gly Leu Leu Leu Thr Leu Glu Glu His Ile Ala His Phe Leu Gly
 20 25 30

Thr Gly Gly Ala Ala Thr Thr Met Gly Asn Ser Cys Ile Cys Arg Asp
 35 40 45

Asp Ser Gly Thr Asp Asp Ser Val Asp Thr Gln Gln Gln Ala Glu
 50 55 60

Asn Ser Ala Val Pro Thr Ala Asp Thr Arg Ser Gln Pro Arg Asp Pro
 65 70 75 80

Val Arg Pro Pro Arg Arg Gly Arg Gly Pro His Glu Pro Arg Arg Lys
 85 90 95

Lys Gln Asn Val Asp Gly Leu Val Leu Asp Thr Leu Ala Val Ile Arg
 100 105 110

Thr Leu Val Asp Asn Asp Gln Glu Pro Pro Tyr Ser Met Ile Thr Leu
 115 120 125

His Glu Met Ala Glu Thr Asp Glu Gly Trp Leu Asp Val Val Gln Ser
 130 135 140

Leu Ile Arg Val Ile Pro Leu Glu Asp Pro Leu Gly Pro Ala Val Ile
 145 150 155 160

Thr Leu Leu Leu Asp Glu Cys Pro Leu Pro Thr Lys Asp Ala Leu Gln
 165 170 175

Lys Leu Thr Glu Ile Leu Asn Leu Asn Gly Glu Val Ala Cys Gln Asp
 180 185 190

Ser Ser His Pro Ala Lys His Arg Asn Thr Ser Ala Val Leu Gly Cys
 195 200 205

Leu Ala Glu Lys Leu Ala Gly Pro Ala Ser Ile Gly Leu Leu Ser Pro
 210 215 220

Gly Ile Leu Glu Tyr Leu Leu Gln Cys Leu Lys Leu Gln Ser His Pro
 225 230 235 240

Thr Val Met Leu Phe Ala Leu Ile Ala Leu Glu Lys Phe Ala Gln Thr
 245 250 255

Ser Glu Asn Lys Leu Thr Ile Ser Glu Ser Ser Ile Ser Asp Arg Leu
 260 265 270

Val Thr Leu Glu Ser Trp Ala Asn Asp Pro Asp Tyr Leu Lys Arg Gln
 275 280 285

Val Gly Phe Cys Ala Gln Trp Ser Leu Asp Asn Leu Phe Leu Lys Glu
 290 295 300

Gly Arg Gln Leu Thr Tyr Glu Lys Val Asn Leu Ser Ser Ile Arg Ala
 305 310 315 320

Met Leu Asn Ser Asn Asp Val Ser Glu Tyr Leu Lys Ile Ser Pro His
 325 330 335

Gly Leu Glu Ala Arg Cys Asp Ala Ser Ser Phe Glu Ser Val Arg Cys
 340 345 350

Thr Phe Cys Val Asp Ala Gly Val Trp Tyr Tyr Glu Val Thr Val Val
 355 360 365

Thr Ser Gly Val Met Gln Ile Gly Trp Ala Thr Arg Asp Ser Lys Phe
 370 375 380

Leu Asn His Glu Gly Tyr Gly Ile Gly Asp Asp Glu Tyr Ser Cys Ala
 385 390 395 400

Tyr Asp Gly Cys Arg Gln Leu Ile Trp Tyr Asn Ala Arg Ser Lys Pro
 405 410 415

His Ile His Pro Cys Trp Glu Arg Arg Arg Tyr Ser Arg Ile Ser Val
 420 425 430

Arg Leu Glu
 435

<210> 98

<211> 426

<212> PRT

<213> Homo sapiens

<400> 98

Met Ile Val Phe Gly Trp Ala Val Phe Leu Ala Ser Arg Ser Leu Gly
 1 5 10 15

Gln Gly Leu Leu Leu Thr Leu Glu Glu His Ile Ala His Phe Leu Gly
 20 25 30

Thr Gly Gly Ala Ala Thr Thr Met Gly Asn Ser Cys Ile Cys Arg Asp
 35 40 45
 Asp Ser Gly Thr Asp Asp Ser Val Asp Thr Gln Gln Gln Gln Ala Glu
 50 55 60
 Asn Ser Ala Val Pro Thr Ala Asp Thr Arg Ser Gln Pro Arg Asp Pro
 65 70 75 80
 Val Arg Pro Pro Arg Arg Gly Arg Gly Pro His Glu Pro Arg Arg Lys
 85 90 95
 Lys Gln Asn Val Asp Gly Leu Val Leu Asp Thr Leu Ala Val Ile Arg
 100 105 110
 Thr Leu Val Asp Asn Asp Gln Glu Pro Tyr Ser Met Ile Thr Leu His
 115 120 125
 Glu Met Ala Glu Thr Asp Glu Gly Trp Leu Asp Val Val Gln Ser Leu
 130 135 140
 Ile Arg Val Ile Pro Leu Glu Asp Pro Leu Gly Pro Ala Val Ile Thr
 145 150 155 160
 Leu Leu Leu Asp Glu Cys Pro Leu Pro Thr Lys Asp Ala Leu Gln Lys
 165 170 175
 Leu Thr Glu Ile Leu Asn Leu Asn Gly Glu Val Ala Cys Gln Asp Ser
 180 185 190
 Ser His Pro Ala Lys His Arg Asn Thr Ser Ala Val Leu Gly Cys Leu
 195 200 205
 Ala Glu Lys Leu Ala Gly Pro Ala Ser Ile Gly Leu Leu Ser Pro Gly
 210 215 220
 Ile Leu Glu Tyr Leu Leu Gln Cys Leu Lys Leu Gln Ser His Pro Thr
 225 230 235 240
 Val Met Leu Phe Ala Leu Ile Ala Leu Glu Lys Phe Ala Gln Thr Ser
 245 250 255
 Glu Asn Lys Leu Thr Ile Ser Glu Ser Ser Ile Ser Asp Arg Leu Val
 260 265 270
 Thr Leu Glu Ser Trp Ala Asn Asp Pro Asp Tyr Leu Lys Arg Gln Val
 275 280 285
 Gly Phe Cys Ala Gln Trp Ser Leu Asp Asn Leu Phe Leu Lys Glu Gly
 290 295 300
 Arg Gln Leu Thr Tyr Glu Lys Val Asn Leu Ser Ser Ile Arg Ala Met
 305 310 315 320
 Leu Asn Ser Asn Asp Val Ser Glu Tyr Leu Lys Ile Ser Pro His Gly
 325 330 335
 Leu Glu Ala Arg Cys Asp Ala Ser Ser Phe Glu Ser Val Arg Cys Thr
 340 345 350

Phe Cys Val Asp Ala Gly Val Trp Tyr Tyr Glu Val Thr Val Val Thr
355 360 365

Ser Gly Val Met Gln Ile Gly Trp Val Thr Arg Asp Ser Lys Phe Leu
370 375 380

Asn His Glu Gly Tyr Gly Ile Gly Asp Asp Glu Tyr Ser Cys Ala Tyr
385 390 395 400

Asp Gly Cys Arg Gln Leu Ile Trp Tyr Asn Ala Arg Ser Ser Leu Thr
405 410 415

Tyr Thr His Ala Gly Lys Lys Glu Ile Gln
420 425

<210> 99

<211> 191

<212> PRT

<213> Homo sapiens

<400> 99

Met Cys Cys Ala Leu Phe Leu Leu Ile Leu Leu Thr Gly Val Leu Cys
1 5 10 15

His Arg Phe His Gly Leu Trp Tyr Met Lys Met Met Trp Ala Trp Leu
20 25 30

Gln Ala Lys Arg Lys Pro Arg Lys Ala Pro Ser Arg Asn Ile Cys Tyr
35 40 45

Asp Ala Phe Val Ser Tyr Ser Glu Arg Asp Ala Tyr Trp Val Glu Asn
50 55 60

Leu Met Val Gln Glu Leu Glu Asn Phe Asn Pro Pro Phe Lys Leu Cys
65 70 75 80

Leu His Lys Arg Asp Phe Ile Pro Gly Lys Trp Ile Ile Asp Asn Ile
85 90 95

Ile Asp Ser Ile Glu Lys Ser His Lys Thr Val Phe Val Leu Ser Glu
100 105 110

Asn Phe Val Lys Ser Glu Trp Cys Lys Tyr Glu Leu Asp Phe Ser His
115 120 125

Phe Arg Leu Phe Asp Glu Asn Asn Asp Ala Ala Ile Leu Ile Leu Leu
130 135 140

Glu Pro Ile Glu Lys Lys Ala Ile Pro Gln Arg Phe Cys Lys Leu Arg
145 150 155 160

Lys Ile Met Asn Thr Lys Thr Tyr Leu Glu Trp Pro Met Asp Glu Ala
165 170 175

Gln Arg Glu Gly Phe Trp Val Asn Leu Arg Ala Ala Ile Lys Ser
180 185 190

<210> 100

<211> 163

<212> PRT

<213> Homo sapiens

<400> 100

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Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala Leu Cys
 1           5           10           15

Leu Thr Gly Leu Val Leu Ser Leu Tyr Ala Leu His Val Lys Ala Ala
      20           25           30

Arg Ala Arg Asp Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly Thr Ala
      35           40           45

Ile Ser Cys Ser Arg Val Phe Ser Ser Arg Trp Gly Arg Gly Phe Gly
      50           55           60

Leu Val Glu His Val Leu Gly Gln Asp Ser Ile Leu Asn Gln Ser Asn
      65           70           75           80..

Ser Ile Phe Gly Cys Ile Phe Tyr Thr Leu Gln Leu Leu Leu Gly Cys
      85           90           95

Leu Arg Thr Arg Trp Ala Ser Val Leu Met Leu Leu Ser Ser Leu Val
      100           105           110

Ser Leu Ala Gly Ser Val Tyr Leu Ala Trp Ile Leu Phe Phe Val Leu
      115           120           125

Tyr Asp Phe Cys Ile Val Cys Ile Thr Thr Tyr Ala Ile Asn Val Ser
      130           135           140

Leu Met Trp Leu Ser Phe Arg Lys Val Gln Glu Pro Gln Gly Lys Ala
      145           150           155           160

Lys Arg His

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<210> 101

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 101

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Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala Leu Cys
 1           5           10           15

Leu Thr Gly Leu Val Leu Ser Leu Tyr Ala Leu His Val Lys Ala Ala
      20           25           30

Arg Ala Arg Asp Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly Thr Ala

```

35 40 45
 Ile Ser Cys Ser Arg Val Phe Ser Ser Arg Leu Pro Xaa Asp Thr Leu
 50 55 60
 Gly Leu Cys Xaa Asp Ala Ala Glu Leu Pro Gly Val Ser Arg Trp Phe
 65 70 75 80
 Cys Leu Pro Gly Leu Asp Pro Val Leu Arg Ala Leu
 85 90

<210> 102
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 102
 Met Tyr Leu Lys Cys Ala Ile Leu Leu Leu Ser Glu Val Cys Pro Val
 1 5 10 15
 Phe Cys Tyr Asn Ser Phe Ser Val Arg Leu Gln Cys Gln Gln Leu Leu
 20 25 30
 Pro His Ser Cys Gln Leu Lys His Lys Cys Tyr Arg Leu Ser Phe Leu
 35 40 45
 Lys Lys Lys Lys
 50

<210> 103
 <211> 323
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (74)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (85)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 103
 Ser Pro Thr Ala Arg Arg Pfo Leu Ala Gly Ala Leu Pro Gly Arg Leu
 1 5 10 15
 Ala Trp His Leu Leu Phe His His Arg Asn Leu Glu Arg Gly Ile Arg
 20 25 30
 Arg Pro Asp Trp Arg Ala Arg Leu Glu Pro Ala Gly Ala Arg Gly Trp
 35 40 45
 Gln Ala Ala Leu Gly Ser Arg Arg Pro Trp Ala Arg Asn Ile Gln Arg
 50 55 60
 Ala Gly Ala Trp Glu Leu Arg Phe Ser Xaa Arg Ala Arg Cys Glu Pro
 65 70 75 80

Pro Ala Val Gly Xaa Ala Cys Thr Arg Leu Cys Arg Pro Arg Ser Ala
 85 90 95
 Pro Ser Arg Cys Gly Pro Gly Leu Arg Pro Cys Ala Pro Leu Glu Ala
 100 105 110
 Glu Cys Glu Ala Pro Pro Val Cys Arg Ala Gly Cys Ser Pro Glu His
 115 120 125
 Gly Phe Cys Glu Gln Pro Gly Glu Cys Arg Cys Leu Glu Gly Trp Thr
 130 135 140
 Gly Pro Leu Cys Thr Val Pro Val Ser Thr Ser Ser Cys Leu Ser Pro
 145 150 155 160
 Arg Gly Pro Ser Ser Ala Thr Thr Gly Cys Leu Val Pro Gly Pro Gly
 165 170 175
 Pro Cys Asp Gly Asn Pro Cys Ala Asn Gly Gly Ser Cys Ser Glu Thr
 180 185 190
 Pro Arg Ser Phe Glu Cys Thr Cys Pro Arg Gly Phe Tyr Gly Leu Arg
 195 200 205
 Cys Glu Val Ser Gly Val Thr Cys Ala Asp Gly Pro Cys Phe Asn Gly
 210 215 220
 Gly Leu Cys Val Gly Gly Ala Asp Pro Asp Ser Ala Tyr Ile Cys His
 225 230 235 240
 Cys Pro Pro Gly Phe Gln Gly Ser Asn Cys Glu Lys Arg Val Asp Arg
 245 250 255
 Cys Ser Leu Gln Pro Cys Arg Asn Gly Gly Leu Cys Leu Asp Leu Gly
 260 265 270
 His Ala Leu Arg Cys Arg Cys Arg Ala Ala Ser Arg Val Leu Ala Ala
 275 280 285
 Ser Thr Thr Trp Thr Thr Ala Arg Ala Ala Pro Ala Leu Thr Ala Ala
 290 295 300
 Arg Val Trp Arg Ala Ala Ala Arg Thr Ala Ala Pro Ala Arg Trp Ala
 305 310 315 320
 Ser Ala Ala

<210> 104
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 104
 Ser Pro Thr Ala Arg Arg Pro Leu Ala Gly Ala Leu Pro Gly Arg Leu
 1 5 10 15
 Ala Trp His Leu Leu Phe His His Arg Asn Leu Glu Arg Gly Ile Arg
 20 25 30

Pro Ser Ser Ala Thr Thr Gly Cys Leu Val Pro Gly
35 40

<210> 108
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 108
 Pro Gly Pro Cys Asp Gly Asn Pro Cys Ala Asn Gly Gly Ser Cys Ser
 1 5 10 15
 Glu Thr Pro Arg Ser Phe Glu Cys Thr Cys Pro Arg Gly Phe Tyr Gly
 20 25 30
 Leu Arg Cys Glu Val Ser Gly Val Thr Cys Ala Asp
 35 40

<210> 109
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 109
 Gly Pro Cys Phe Asn Gly Gly Leu Cys Val Gly Gly Ala Asp Pro Asp
 1 5 10 15
 Ser Ala Tyr Ile Cys His Cys Pro Pro Gly Phe Gln Gly Ser Asn Cys
 20 25 30
 Glu Lys Arg Val Asp Arg Cys Ser Leu Gln Pro Cys
 35 40

<210> 110
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 110
 Arg Asn Gly Gly Leu Cys Leu Asp Leu Gly His Ala Leu Arg Cys Arg
 1 5 10 15
 Cys Arg Ala Ala Ser Arg Val Leu Ala Ala Ser Thr Thr Trp Thr Thr
 20 25 30
 Ala Arg Ala Ala Pro Ala Leu Thr Ala Ala
 35 40

<210> 111
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 111
 Arg Val Trp Arg Ala Ala Ala Arg Thr Ala Ala Pro Ala Arg Trp Ala
 1 5 10 15
 Ser Ala Ala

<210> 112
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 112
 Lys Gln Ser Ser Ser Leu Pro Cys Cys Arg Glu Pro Tyr Phe Leu Pro
 1 5 10 15
 Leu Gln Leu Ser His Leu Leu Leu Ser Gly Leu Pro Ala
 20 25

<210> 113
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 113
 Leu Val Pro Leu Val Phe Ser Leu Leu Val Gln Ser Cys Lys Gln Val
 1 5 10 15
 Tyr Arg Ser Ile Ala
 20

<210> 114
 <211> 272
 <212> PRT
 <213> Homo sapiens

<400> 114
 Met Val Val Cys Gln Gly Glu Val Arg Ser Val Gly Val Phe His Leu
 1 5 10 15
 Ser Pro Ser Glu Glu Ala Asp Glu Lys Gly Ala Gln Gly Leu Glu Gly
 20 25 30
 Phe Pro Thr Met Phe Pro Gly Leu Leu Leu Cys Phe Leu Ile Pro Ser
 35 40 45
 Gly Pro Gly Ser Arg Leu Gly Arg Phe Gly Cys Gly Ser Gly Gly Gly
 50 55 60
 Phe Gly Phe Ser Gln Leu Phe His Arg Val Leu Ser Gln Leu Cys Cys
 65 70 75 80
 Phe Cys Glu Phe His Cys Gly Leu Gly Pro Gln Arg Trp Arg Pro Ser
 85 90 95
 Leu Arg Leu Leu Val Gly Leu Trp Ala Ala Leu Glu Ala Gly Ser His
 100 105 110
 Leu Leu His Met Gly Leu Gly Ser Ser Leu Pro Ala His Gly Trp Pro
 115 120 125
 Lys His Arg Gly Pro Leu Ala Arg Met Val Lys Ala Pro Gln Leu Leu
 130 135 140

Gln Gly Leu Ile Pro Val Arg Phe Gly Val Ser Ser Glu Ser Leu Ala
145 150 155 160

His Ala Gly Leu Pro Pro Val Leu Thr Pro Val Gly Leu Val Cys Val
165 170 175

Ala Ala Val Asp Ala Lys Pro Asp Phe Ser Ser Thr Leu Pro Gln Ala
180 185 190

Ala Gly Thr His Ser Ala Gly Ile Ser Pro Ser Ser Leu Glu Met Glu
195 200 205

Phe Leu Pro Ser Ala Ser Leu Leu Leu Pro Arg Gly Leu Thr Gln Ser
210 215 220

Pro Gln Ala Gly Gln Gly His Gln Gln Glu Ala Gly Asp Glu Leu His
225 230 235 240

Gly Asp Thr Pro Ile Asn Leu Leu Ala Thr Leu His Gln Glu Arg Glu
245 250 255

His Lys Trp Asp Glu Ser Pro Phe Lys Gly Cys Cys Thr Lys Ala Leu
260 265 270

<210> 115

<211> 69

<212> PRT

<213> Homo sapiens

<400> 115

Leu Leu Ser Ser Pro Phe Asp Cys Thr Gln Gly Ser Gly Ala Trp Ala
1 5 10 15

Leu Gly Gly Tyr Gln Gln Leu Leu Ala Val Pro Met Ser Ser Leu Gln
20 25 30

Leu Cys Cys Val Ser Leu Leu Pro Asn Leu Ser Asp Cys Glu Arg Thr
35 40 45

Leu Cys Leu Ser His Gly Gln Pro Leu Ala Gly Pro Leu Ile Cys Pro
50 55 60

Pro Ser Ile Val Trp
65

<210> 116

<211> 51

<212> PRT

<213> Homo sapiens

<400> 116

Gly Cys Arg Asn Ser Ala Arg Ala Arg Ala Asp Ser Gln Ser Arg Glu
1 5 10 15

Gln Arg Gly Lys Met Phe Thr Leu His Ala Gln Ser Val Leu Pro Val
20 25 30

Pro His Pro Met Trp Pro Asn Ser Trp Leu Asp Phe Thr Leu Asn Trp
 35 40 45

Tyr Phe Phe
 50

<210> 117
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 117
 Leu Pro Ser Ser Pro Ala Pro Thr Asp Ser Ser Pro Leu Pro Leu Ile
 1 5 10 15

Val Leu Lys Val Leu Gly Pro Gly Pro Trp Val Gly Thr Asn Ser Cys
 20 25 30

Ser Leu Phe Pro Cys Pro Leu Ser Ser Phe Ala Val Phe Leu Cys Tyr
 35 40 45

Leu Ile Ser Val Thr Val Lys Gly His Cys Val
 50 55

<210> 118
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 118
 Ala Ala Gly Ile Arg His Glu Leu Val Pro Thr Leu Arg Ala Gly Asn
 1 5 10 15

Ser Gly Gly Lys Cys Leu His Ser Met His Asn Leu Cys Phe Gln Ser
 20 25 30

Leu Thr Leu Cys Gly Pro Ile Ala Gly Trp Ile Ser His Leu Ile Gly
 35 40 45

Ile Phe Phe Cys Leu Leu Pro Leu Pro Pro Leu Thr Pro Leu Leu Ser
 50 55 60

Leu
 65

<210> 119
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 119
 Ser Phe Pro Val Gln Val Leu Glu Val Ser Gly Arg Arg Val Leu Pro
 1 5 10 15

Ala Gly Ser Phe Glu Ser His Gln
 20

<210> 120
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 120
 Asp Val Leu Cys Pro Val Tyr Asp Leu Asp Asn Asn Val Ala Phe Ile
 1 5 10 15

Gly Met Tyr Gln Thr Met Thr Lys Lys Ala Ala Ile Thr Val Gln Arg
 20 25 30

Lys Asp Phe Pro Ser Asn Ser Phe Tyr Val Val Val Val Val Lys Thr
 35 40 45

Glu

<210> 121
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 121
 Asp Gln Ala Cys Gly Gly Ser Leu Pro Phe Tyr Pro Phe Ala Glu Asp
 1 5 10 15

Glu Pro Val Asp Gln Gly His Arg Gln Lys Thr Leu Ser Val Leu Val
 20 25 30

Ser Gln Ala Val Thr Ser Glu Ala Tyr Val Ser Gly
 35 40

<210> 122
 <211> 143
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (90)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 122
 Ser Ser Thr Arg Ser Gly Thr Arg Thr Ser Thr Xaa Ala Xaa Thr Val
 1 5 10 15

Pro Thr Pro Ala Trp Pro Leu Ser Ser Ser Ser Leu Cys Trp Ala Trp

	20		25		30
Ser	Leu	Ala	Lys	Gly	Thr
	35		40		45
Thr	Ser	Ser	Pro	Pro	Cys
	50		55		60
Gly	Gly	Asn	Trp	Thr	Arg
	65		70		75
Thr	Gln	Thr	Ala	Ser	Gly
			85		90
Met	Val	Leu	Leu	Val	Met
	100		105		110
Tyr	Gly	Leu	Ile	Met	Arg
	115		120		125
Ile	Gly	Ile	Cys	Asn	Leu
	130		135		140

<210> 123

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 123

Ser	Ser	Thr	Arg	Ser	Gly	Thr	Arg	Thr	Ser	Thr	Xaa	Ala	Xaa	Thr	Val
1				5				10						15	

Pro	Thr	Pro	Ala	Trp	Pro	Leu	Ser	Ser	Ser	Leu	Cys	Trp	Ala	Trp
		20					25					30		

Ser	Leu	Ala	Lys	Gly	Thr	Arg	Arg	Ser	Gly	Ser	Ser	Ser	Pro
	35					40						45	

<210> 124

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 124

Ser Phe Thr Ser Ser Pro Pro Cys Ser Ser Ala Arg Ser Ser Ile Thr
 1 5 10 15

Trp Ala Gly Gly Asn Trp Thr Arg Gly Ser Ser Ala Ala Ser Ser Thr
 20 25 30

Cys Ser Thr Gln Thr Ala Ser Gly Ser Ala Ala Xaa Pro Leu
 35 40 45

<210> 125

<211> 51

<212> PRT

<213> Homo sapiens

<400> 125

Tyr Val Asp Arg Met Val Leu Leu Val Met Gly Asn Val Ile Asn Trp
 1 5 10 15

Ser Leu Ala Ala Tyr Gly Leu Ile Met Arg Pro Asn Asp Phe Ala Ser
 20 25 30

Tyr Leu Leu Ala Ile Gly Ile Cys Asn Leu Leu Leu Tyr Phe Ala Phe
 35 40 45

Tyr Ile Ile
 50

<210> 126

<211> 37

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 126

Glu Gly Gly Ser Ser Arg Ala Arg Xaa Ser Thr Ser Arg Arg Leu Gly
 1 5 10 15

Val Cys Ser Leu Phe Leu Leu Pro Gly Ser Thr Glu Gly Asn Gly Asp
 20 25 30

Leu Ser Glu Glu Lys
 35

<210> 127

<211> 34

<212> PRT

<213> Homo sapiens

<400> 127

Ala Ser Leu Leu Ser Pro Gln Leu His Ser Ala Cys Ile Leu Ala Phe
 1 5 10 15

Ser Trp Arg Glu Ser Pro Ser Arg Ser Gly Thr Pro Ala Asp Leu Leu
 20 25 30

Cys Pro

<210> 128
 <211> 141
 <212> PRT
 <213> Homo sapiens

<400> 128
 Leu Leu Cys Cys Gln Leu Leu Gly Ser Pro Val Pro Ser Gly Gly Asp
 1 5 10 15
 Leu Pro Ala Ser Arg Ala Trp Ala Arg Val Arg Leu Pro Gly Gly Pro
 20 25 30
 Val Thr Cys Met Phe Gly His Thr Gly Ser Val Pro Ser Ala Leu Met
 35 40 45
 Leu Leu Trp Val Leu Pro Met Phe Cys Cys His Asp Arg His Phe Pro
 50 55 60
 Gly Cys Pro Met Trp His Leu Trp Val Pro Arg Val Ala Ser Val Gly
 65 70 75 80
 Ala Pro Cys Gly Val Ser Gly Cys Pro Val Trp Arg Leu Trp Val Pro
 85 90 95
 Arg Val Thr Ser Val Gly Ala Pro Cys Gly Ile Cys Ala Ala Met Ser
 100 105 110
 Gly Val Gln Ser Leu Asn Ser Lys Lys Gly Asp Ala Gly Ser Gln Val
 115 120 125
 Thr Ser Thr Tyr Asn Ser Asp Ser Cys Asp Lys Pro Ser
 130 135 140

<210> 129
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 129
 Leu Leu Cys Cys Gln Leu Leu Gly Ser Pro Val Pro Ser Gly Gly Asp
 1 5 10 15
 Leu Pro Ala Ser Arg Ala Trp Ala Arg Val Arg Leu Pro Gly Gly Pro
 20 25 30
 Val Thr Cys Met Phe Gly
 35

<210> 130
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 130

His Thr Gly Ser Val Pro Ser Ala Leu Met Leu Leu Trp Val Leu Pro
 1 5 10 15

Met Phe Cys Cys His Asp Arg His Phe Pro Gly Cys Pro Met Trp His
 20 25 30

Leu Trp Val Pro Arg
 35

<210> 131

<211> 37

<212> PRT

<213> Homo sapiens

<400> 131

Val Ala Ser Val Gly Ala Pro Cys Gly Val Ser Gly Cys Pro Val Trp
 1 5 10 15

Arg Leu Trp Val Pro Arg Val Thr Ser Val Gly Ala Pro Cys Gly Ile
 20 25 30

Cys Ala Ala Met Ser
 35

<210> 132

<211> 29

<212> PRT

<213> Homo sapiens

<400> 132

Gly Val Gln Ser Leu Asn Ser Lys Lys Gly Asp Ala Gly Ser Gln Val
 1 5 10 15

Thr Ser Thr Tyr Asn Ser Asp Ser Cys Asp Lys Pro Ser
 20 25

<210> 133

<211> 292

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (239)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (247)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (249)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (258)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (265)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (282)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (290)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 133

Leu Ser Phe Gly Pro Ser Gly Arg Thr Leu Pro Thr Thr Xaa Arg Arg
1 5 10 15

Met Thr Leu Lys Thr Pro Trp Arg Ser Leu Gly Gly Ser Trp Cys Thr
20 25 30

Ala Thr Ser Ser Gly Pro Pro Gln Tyr Pro Met Ile Leu Ser Ser Leu
35 40 45

Leu Gly Ser Gly Ile Gln Leu Phe Cys Met Ile Leu Ile Val Ile Phe
50 55 60

Val Ala Met Leu Gly Met Leu Ser Pro Ser Ser Arg Gly Ala Leu Met
65 70 75 80

Thr Thr Ala Cys Phe Leu Phe Met Phe Met Gly Val Phe Gly Gly Phe
85 90 95

Ser Ala Gly Arg Leu Tyr Arg Thr Leu Lys Gly His Arg Trp Lys Lys
100 105 110

Gly Ala Phe Cys Thr Ala Thr Leu Tyr Pro Gly Val Val Phe Gly Ile
115 120 125

Cys Phe Val Leu Asn Cys Phe Ile Trp Gly Lys His Ser Ser Gly Ala
130 135 140

Val Pro Phe Pro Thr Met Val Ala Leu Leu Cys Met Trp Phe Gly Ile
145 150 155 160

Ser Leu Pro Leu Val Tyr Leu Gly Tyr Tyr Phe Gly Phe Arg Lys Gln
165 170 175

Pro Tyr Asp Asn Pro Val Arg Thr Asn Gln Ile Pro Arg Gln Ile Pro
180 185 190

Glu Gln Arg Trp Tyr Met Asn Arg Phe Val Gly Ile Leu Met Ala Gly

195	200	205
Ile Leu Pro Phe Gly Ala Met Phe Ile Glu Leu Phe Phe Ile Phe Ser		
210	215	220
Ala Ile Trp Glu Asn Gln Phe Tyr Tyr Leu Phe Gly Phe Leu Xaa Leu		
225	230	235 240
Gly Phe Ile Ile Leu Val Xaa Ser Xaa Ser Gln Ile Ser Ile Val Met		
	245	250 255
Val Xaa Phe Gln Leu Cys Ala Glu Xaa Leu Pro Leu Val Val Glu Lys		
	260	265 270
Phe Pro Ser Leu Arg Gly Leu Cys Ile Xaa Arg Pro Gly Leu Cys His		
275	280	285
Leu Xaa Phe Arg		
290		

<210> 134
 <211> 45
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 134
Leu Ser Phe Gly Pro Ser Gly Arg Thr Leu Pro Thr Thr Xaa Arg Arg
1 5 10 15

Met Thr Leu Lys Thr Pro Trp Arg Ser Leu Gly Gly Ser Trp Cys Thr
20 25 30

Ala Thr Ser Ser Gly Pro Pro Gln Tyr Pro Met Ile Leu
35 40 45

<210> 135
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 135
Ser Ser Leu Leu Gly Ser Gly Ile Gln Leu Phe Cys Met Ile Leu Ile
1 5 10 15

Val Ile Phe Val Ala Met Leu Gly Met Leu Ser Pro Ser Ser Arg Gly
20 25 30

Ala Leu Met Thr Thr Ala Cys Phe Leu Phe Met Phe Met Gly Val
35 40 45

<210> 136
 <211> 47
 <212> PRT

<213> Homo sapiens

<400> 136

Phe Gly Gly Phe Ser Ala Gly Arg Leu Tyr Arg Thr Leu Lys Gly His
1 5 10 15

Arg Trp Lys Lys Gly Ala Phe Cys Thr Ala Thr Leu Tyr Pro Gly Val
20 25 30

Val Phe Gly Ile Cys Phe Val Leu Asn Cys Phe Ile Trp Gly Lys
35 40 45

<210> 137

<211> 46

<212> PRT

<213> Homo sapiens

<400> 137

His Ser Ser Gly Ala Val Pro Phe Pro Thr Met Val Ala Leu Leu Cys
1 5 10 15

Met Trp Phe Gly Ile Ser Leu Pro Leu Val Tyr Leu Gly Tyr Tyr Phe
20 25 30

Gly Phe Arg Lys Gln Pro Tyr Asp Asn Pro Val Arg Thr Asn
35 40 45

<210> 138

<211> 49

<212> PRT

<213> Homo sapiens

<400> 138

Gln Ile Pro Arg Gln Ile Pro Glu Gln Arg Trp Tyr Met Asn Arg Phe
1 5 10 15

Val Gly Ile Leu Met Ala Gly Ile Leu Pro Phe Gly Ala Met Phe Ile
20 25 30

Glu Leu Phe Phe Ile Phe Ser Ala Ile Trp Glu Asn Gln Phe Tyr Tyr
35 40 45

Leu

<210> 139

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 139

Phe	Gly	Phe	Leu	Xaa	Leu	Gly	Phe	Ile	Ile	Leu	Val	Xaa	Ser	Xaa	Ser
1				5				10						15	

Gln	Ile	Ser	Ile	Val	Met	Val	Xaa	Phe	Gln	Leu	Cys	Ala	Glu	Xaa	Leu
			20					25					30		

Pro	Leu	Val	Val	Glu	Lys	Phe	Pro	Ser	Leu	Arg	Gly	Leu	Cys	Ile	Xaa
	35						40					45			

Arg	Pro	Gly	Leu	Cys	His	Leu	Xaa	Phe	Arg
	50					55			

<210> 140

<211> 276

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (223)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (231)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (233)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (242)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (249)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (266)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (274)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 140
 Met Thr Leu Lys Thr Pro Trp Arg Ser Leu Gly Gly Ser Trp Cys Thr
 1 5 10 15
 Ala Thr Ser Ser Gly Pro Pro Gln Tyr Pro Met Ile Leu Ser Ser Leu
 20 25 30
 Leu Gly Ser Gly Ile Gln Leu Phe Cys Met Ile Leu Ile Val Ile Phe
 35 40 45
 Val Ala Met Leu Gly Met Leu Ser Pro Ser Ser Arg Gly Ala Leu Met
 50 55 60
 Thr Thr Ala Cys Phe Leu Phe Met Phe Met Gly Val Phe Gly Gly Phe
 65 70 75 80
 Ser Ala Gly Arg Leu Tyr Arg Thr Leu Lys Gly His Arg Trp Lys Lys
 85 90 95
 Gly Ala Phe Cys Thr Ala Thr Leu Tyr Pro Gly Val Val Phe Gly Ile
 100 105 110
 Cys Phe Val Leu Asn Cys Phe Ile Trp Gly Lys His Ser Ser Gly Ala
 115 120 125
 Val Pro Phe Pro Thr Met Val Ala Leu Leu Cys Met Trp Phe Gly Ile
 130 135 140
 Ser Leu Pro Leu Val Tyr Leu Gly Tyr Tyr Phe Gly Phe Arg Lys Gln
 145 150 155 160
 Pro Tyr Asp Asn Pro Val Arg Thr Asn Gln Ile Pro Arg Gln Ile Pro
 165 170 175
 Glu Gln Arg Trp Tyr Met Asn Arg Phe Val Gly Ile Leu Met Ala Gly
 180 185 190
 Ile Leu Pro Phe Gly Ala Met Phe Ile Glu Leu Phe Phe Ile Phe Ser
 195 200 205
 Ala Ile Trp Glu Asn Gln Phe Tyr Tyr Leu Phe Gly Phe Leu Xaa Leu

210	215	220
Gly Phe Ile Ile Leu Val Xaa Ser Xaa Ser Gln Ile Ser Ile Val Met		
225	230	235 240
Val Xaa Phe Gln Leu Cys Ala Glu Xaa Leu Pro Leu Val Val Glu Lys		
	245	250 255
Phe Pro Ser Leu Arg Gly Leu Cys Ile Xaa Arg Pro Gly Leu Cys His		
	260	265 270
Leu Xaa Phe Arg		
	275	

<210> 141
 <211> 46
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 141
Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu His Gly Ser Asn Asp
1 5 10 15
Pro Val Gly Leu Gln Arg Lys Gly Gly Xaa Glu Gly Arg Arg Gln Gly
20 25 30
Leu Pro His Trp Pro Pro Ser Gln Pro Gln Glu Pro Ser Pro
35 40 45

<210> 142
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 142
Gln Glu Phe Gly Thr Arg Arg Ala Gly Thr Gly
1 5 10

<210> 143
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 143
Gly Thr Ser Asp Arg Ser Glu Leu Arg Pro Glu Gln Pro Ala Ser Gly
1 5 10 15

<210> 144
 <211> 443

<212> PRT

<213> Homo sapiens

<400> 144

Met	Glu	Cys	Leu	Arg	Ser	Leu	Pro	Cys	Leu	Leu	Pro	Arg	Ala	Met	Arg	1	5	10	15
Leu	Pro	Arg	Arg	Thr	Leu	Cys	Ala	Leu	Ala	Leu	Asp	Val	Thr	Ser	Val	20	25	30	
Gly	Pro	Pro	Val	Ala	Ala	Cys	Gly	Arg	Arg	Ala	Asn	Leu	Ile	Gly	Arg	35	40	45	
Ser	Arg	Ala	Ala	Gln	Leu	Cys	Gly	Pro	Asp	Arg	Leu	Arg	Val	Ala	Gly	50	55	60	
Glu	Val	His	Arg	Phe	Arg	Thr	Ser	Asp	Val	Ser	Gln	Ala	Thr	Leu	Ala	65	70	75	80
Ser	Val	Ala	Pro	Val	Phe	Thr	Val	Thr	Lys	Phe	Asp	Lys	Gln	Gly	Asn	85	90	95	
Val	Thr	Ser	Phe	Glu	Arg	Lys	Lys	Thr	Glu	Leu	Tyr	Gln	Glu	Leu	Gly	100	105	110	
Leu	Gln	Ala	Arg	Asp	Leu	Arg	Phe	Gln	His	Val	Met	Ser	Ile	Thr	Val	115	120	125	
Arg	Asn	Asn	Arg	Ile	Ile	Met	Arg	Met	Glu	Tyr	Leu	Lys	Ala	Val	Ile	130	135	140	
Thr	Pro	Glu	Cys	Leu	Leu	Ile	Leu	Asp	Tyr	Arg	Asn	Leu	Asn	Leu	Glu	145	150	155	160
Gln	Trp	Leu	Phe	Arg	Glu	Leu	Pro	Ser	Gln	Leu	Ser	Gly	Glu	Gly	Gln	165	170	175	
Leu	Val	Thr	Tyr	Pro	Leu	Pro	Phe	Glu	Phe	Arg	Ala	Ile	Glu	Ala	Leu	180	185	190	
Leu	Gln	Tyr	Trp	Ile	Asn	Thr	Leu	Gln	Gly	Lys	Leu	Ser	Ile	Leu	Gln	195	200	205	
Pro	Leu	Ile	Leu	Glu	Thr	Leu	Asp	Ala	Leu	Val	Asp	Pro	Lys	His	Ser	210	215	220	
Ser	Val	Asp	Arg	Ser	Lys	Leu	His	Ile	Leu	Leu	Gln	Asn	Gly	Lys	Ser	225	230	235	240
Leu	Ser	Glu	Leu	Glu	Thr	Asp	Ile	Lys	Ile	Phe	Lys	Glu	Ser	Ile	Leu	245	250	255	
Glu	Ile	Leu	Asp	Glu	Glu	Glu	Leu	Leu	Glu	Glu	Leu	Cys	Val	Ser	Lys	260	265	270	
Trp	Ser	Asp	Pro	Gln	Val	Phe	Glu	Lys	Ser	Ser	Ala	Gly	Ile	Asp	His	275	280	285	
Ala	Glu	Glu	Met	Glu	Leu	Leu	Leu	Glu	Asn	Tyr	Tyr	Arg	Leu	Ala	Asp	290	295	300	

Asp Leu Ser Asn Ala Ala Arg Glu Leu Arg Val Leu Ile Asp Asp Ser
305 310 315 320

Gln Ser Ile Ile Phe Ile Asn Leu Asp Ser His Arg Asn Val Met Met
325 330 335

Arg Leu Asn Leu Gln Leu Thr Met Gly Thr Phe Ser Leu Ser Leu Phe
340 345 350

Gly Leu Met Gly Val Ala Phe Gly Met Asn Leu Glu Ser Ser Leu Glu
355 360 365

Glu Asp His Arg Ile Phe Trp Leu Ile Thr Gly Ile Met Phe Met Gly
370 375 380

Ser Gly Leu Ile Trp Arg Arg Leu Leu Ser Phe Leu Gly Arg Gln Leu
385 390 395 400

Glu Ala Pro Leu Pro Pro Met Met Ala Ser Leu Pro Lys Lys Thr Leu
405 410 415

Leu Ala Asp Arg Ser Met Glu Leu Lys Asn Ser Leu Arg Leu Asp Gly
420 425 430

Leu Gly Ser Gly Arg Ser Ile Leu Thr Asn Arg
435 440

<210> 145

<211> 10

<212> PRT

<213> Homo sapiens

<400> 145

Arg Ser Trp Gly Ala Pro Trp Phe Trp Arg
1 5 10

<210> 146

<211> 225

<212> PRT

<213> Homo sapiens

<400> 146

Pro Leu Asn Thr Gln Ala Gly Lys Gly Leu Met Ser Val Val Pro Ile
1 5 10 15

Leu Glu Gly Gln Ala Leu Arg Ile Cys Ser Trp His Gly Ala Ala Ala
20 25 30

Pro Arg Pro Pro Gly Trp Pro Ser Arg Gly Ser Arg Gln Gln Val His
35 40 45

Gly Glu His Gly Pro Ala Ala Arg Val Leu Cys Gly Cys Gly Gly Arg
50 55 60

Gln Arg Gln Leu Pro Arg Arg Lys Ser Val Trp Ser Arg Leu Leu Gln
65 70 75 80

Ala Leu Glu Arg Gly Arg Glu Arg His Cys Val Arg Cys Gly Asn Gly
85 90 95

Thr Leu Pro Ala Tyr Asn Gly Ser Glu Cys Arg Ser Phe Ala Gly Pro
100 105 110

Gly Ala Pro Phe Pro Met Asn Arg Ser Ser Gly Thr Pro Gly Arg Pro
115 120 125

His Pro Gly Ala Pro Arg Val Ala Ala Ser Leu Phe Leu Gly Thr Phe
130 135 140

Phe Ile Ser Ser Gly Leu Ile Leu Ser Val Ala Gly Phe Phe Tyr Leu
145 150 155 160

Lys Arg Ser Ser Lys Leu Pro Arg Ala Cys Tyr Arg Arg Asn Lys Ala
165 170 175

Pro Ala Leu Gln Pro Gly Glu Ala Ala Ala Met Ile Pro Pro Pro Gln
180 185 190

Ser Ser Val Arg Lys Pro Arg Tyr Val Arg Arg Glu Arg Pro Leu Asp
195 200 205

Arg Ala Thr Asp Pro Ala Ala Phe Pro Gly Glu Ala Arg Ile Ser Asn
210 215 220

Val
225

<210> 147

<211> 46

<212> PRT

<213> Homo sapiens

<400> 147

Pro Leu Asn Thr Gln Ala Gly Lys Gly Leu Met Ser Val Val Pro Ile
1 5 10 15

Leu Glu Gly Gln Ala Leu Arg Ile Cys Ser Trp His Gly Ala Ala Ala
20 25 30

Pro Arg Pro Pro Gly Trp Pro Ser Arg Gly Ser Arg Gln Gln
35 40 45

<210> 148

<211> 46

<212> PRT

<213> Homo sapiens

<400> 148

Val His Gly Glu His Gly Pro Ala Ala Arg Val Leu Cys Gly Cys Gly
1 5 10 15

Gly Arg Gln Arg Gln Leu Pro Arg Arg Lys Ser Val Trp Ser Arg Leu
20 25 30

Leu Gln Ala Leu Glu Arg Gly Arg Glu Arg His Cys Val Arg
35 40 45

<210> 149
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 149
 Cys Gly Asn Gly Thr Leu Pro Ala Tyr Asn Gly Ser Glu Cys Arg Ser
 1 5 10 15
 Phe Ala Gly Pro Gly Ala Pro Phe Pro Met Asn Arg Ser Ser Gly Thr
 20 25 30
 Pro Gly Arg Pro His Pro Gly Ala Pro Arg Val Ala Ala
 35 40 45

<210> 150
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 150
 Ser Leu Phe Leu Gly Thr Phe Phe Ile Ser Ser Gly Leu Ile Leu Ser
 1 5 10 15
 Val Ala Gly Phe Phe Tyr Leu Lys Arg Ser Ser Lys Leu Pro Arg Ala
 20 25 30
 Cys Tyr Arg Arg Asn Lys Ala Pro Ala Leu Gln Pro Gly Glu Ala Ala
 35 40 45

<210> 151
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 151
 Ala Met Ile Pro Pro Pro Gln Ser Ser Val Arg Lys Pro Arg Tyr Val
 1 5 10 15
 Arg Arg Glu Arg Pro Leu Asp Arg Ala Thr Asp Pro Ala Ala Phe Pro
 20 25 30
 Gly Glu Ala Arg Ile Ser Asn Val
 35 40

<210> 152
 <211> 155
 <212> PRT
 <213> Homo sapiens

<400> 152
 Cys Arg Asn Ser Ala Arg Asp Tyr Asn Thr Ser Glu Gln Asn Val Met
 1 5 10 15
 Asp Tyr His Gly Ala Glu Ile Val Ser Leu Arg Leu Leu Ser Leu Val

20										25										30																																		
Lys	Glu	Glu	Phe	Leu	Phe	Leu	Ser	Pro	Asn	Leu	Asp	Ser	His	Gly	Leu																																							
35										40										45																																		
Lys	Cys	Ala	Ser	Ser	Pro	His	Gly	Leu	Val	Met	Val	Gly	Val	Ala	Gly																																							
50										55										60																																		
Thr	Val	His	Arg	Gly	Asn	Thr	Cys	Leu	Gly	Ile	Phe	Glu	Gln	Ile	Phe																																							
65										70										75										80																								
Gly	Leu	Ile	Arg	Cys	Pro	Phe	Val	Glu	Asn	Thr	Trp	Lys	Ile	Lys	Phe																																							
85										90										95																																		
Ile	Asn	Leu	Lys	Ile	Met	Gly	Glu	Ser	Ser	Leu	Ala	Pro	Gly	Thr	Leu																																							
100										105										110																																		
Pro	Lys	Pro	Ser	Val	Lys	Phe	Glu	Gln	Ser	Asp	Leu	Glu	Ala	Phe	Tyr																																							
115										120										125																																		
Asn	Val	Ile	Thr	Val	Cys	Gly	Thr	Asn	Glu	Val	Arg	His	Asn	Val	Lys																																							
130										135										140																																		
Gln	Ala	Ser	Asp	Ser	Gly	Thr	Gly	Asp	Gln	Val																																												
145										150										155																																		

<210> 153

<211> 43

<212> PRT

<213> Homo sapiens

<400> 153

Cys	Arg	Asn	Ser	Ala	Arg	Asp	Tyr	Asn	Thr	Ser	Glu	Gln	Asn	Val	Met
1				5					10					15	

Asp	Tyr	His	Gly	Ala	Glu	Ile	Val	Ser	Leu	Arg	Leu	Leu	Ser	Leu	Val
			20					25					30		

Lys	Glu	Glu	Phe	Leu	Phe	Leu	Ser	Pro	Asn	Leu
35						40				

<210> 154

<211> 43

<212> PRT

<213> Homo sapiens

<400> 154

Asp	Ser	His	Gly	Leu	Lys	Cys	Ala	Ser	Ser	Pro	His	Gly	Leu	Val	Met
1				5					10					15	

Val	Gly	Val	Ala	Gly	Thr	Val	His	Arg	Gly	Asn	Thr	Cys	Leu	Gly	Ile
			20					25					30		

Phe	Glu	Gln	Ile	Phe	Gly	Leu	Ile	Arg	Cys	Pro
35						40				

<210> 155

<211> 43

<212> PRT
 <213> Homo sapiens

<400> 155
 Phe Val Glu Asn Thr Trp Lys Ile Lys Phe Ile Asn Leu Lys Ile Met
 1 5 10 15
 Gly Glu Ser Ser Leu Ala Pro Gly Thr Leu Pro Lys Pro Ser Val Lys
 20 25 30
 Phe Glu Gln Ser Asp Leu Glu Ala Phe Tyr Asn
 35 40

<210> 156
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 156
 Val Ile Thr Val Cys Gly Thr Asn Glu Val Arg His Asn Val Lys Gln
 1 5 10 15
 Ala Ser Asp Ser Gly Thr Gly Asp Gln Val
 20 25

<210> 157
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 157
 Trp Met Ser Leu Thr Pro Pro Thr Pro Val Leu Phe Leu Phe Leu Ser
 1 5 10 15
 Leu Leu Trp Ala Arg Phe Phe Leu Ser Arg
 20 25

<210> 158
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 158
 Cys Trp Pro Leu Leu Leu Ser Arg Gly Ser Ser Ala Ala Pro Trp Ala
 1 5 10 15
 Ser Val Pro Met Asp Gly Ala
 20

<210> 159
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 159
 Leu Pro Arg Gln Leu Ala Ser Pro Ser Ala Asn Thr Glu Leu Arg Val
 1 5 10 15

Leu Leu Leu Pro Ala Arg Val Arg His
 20 25

<210> 160
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 160
 Met Pro Leu His Leu Lys Ile Ser Gln Ala Trp Met Ser Leu Thr Pro
 1 5 10 15

Pro Thr Pro Val Leu Phe Leu Phe Leu Ser Leu Leu Trp Ala Arg Phe
 20 25 30

Phe Leu Ser Arg Leu Lys Cys Pro Gly Gly Cys Leu Cys Trp Pro Leu -
 35 40 45

Leu Leu Ser Arg Gly Ser Ser Ala Ala Pro Trp Ala Ser Val Pro Met
 50 55 60

Asp Gly Ala Ala His Ala Ala Ile Ser Ala Pro Gly Leu Ser Val Gln
 65 70 75 80

Leu Leu Pro Arg Gln Leu Ala Ser Pro Ser Ala Asn Thr Glu Leu Arg
 85 90 95

Val Leu Leu Leu Pro Ala Arg Val Arg His Tyr Leu Pro Ser Ser Phe
 100 105 110

His Gln Val Leu Gly Ser Ser
 115

<210> 161
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 161
 Thr Met Ala Thr Pro Leu Glu Asp Val Gly Lys Gln Val Gly Arg Ser
 1 5 10 15

Cys Leu Leu Pro Val Ala Leu
 20

<210> 162
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 162
 Ala Thr Ala Glu Arg Glu Val Glu Ser Lys Gly Gln Ala Pro Trp Gly
 1 5 10 15

Gln

<210> 163
 <211> 206
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (21)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 163
 Pro Pro Val Ser Ser Phe Arg Cys Glu Pro Asp Pro Arg Gly Arg Arg
 1 5 10 15
 Tyr Leu Gly Leu Xaa Val Phe Tyr Val Val Thr Val Ile Leu Cys Thr
 20 25 30
 Trp Ile Tyr Gln Arg Gln Arg Arg Gly Ser Leu Phe Cys Pro Met Pro
 35 40 45
 Val Thr Pro Glu Ile Leu Ser Asp Ser Glu Glu Asp Arg Val Ser Ser
 50 55 60
 Asn Thr Asn Ser Tyr Asp Tyr Gly Asp Glu Tyr Arg Pro Leu Phe Phe
 65 70 75 80
 Tyr Gln Glu Thr Thr Ala Gln Ile Leu Val Arg Ala Leu Asn Pro Leu
 85 90 95
 Asp Tyr Met Lys Trp Arg Arg Lys Ser Ala Tyr Trp Lys Ala Leu Lys
 100 105 110
 Val Phe Lys Leu Pro Val Glu Phe Leu Leu Leu Leu Thr Val Pro Val
 115 120 125
 Val Asp Pro Asp Lys Asp Asp Gln Asn Trp Lys Arg Pro Leu Asn Cys
 130 135 140
 Leu His Leu Val Ile Ser Pro Leu Val Val Val Leu Thr Leu Gln Ser
 145 150 155 160
 Gly Thr Tyr Gly Val Tyr Glu Ile Gly Gly Leu Val Pro Val Trp Val
 165 170 175
 Val Val Val Ile Ala Gly Thr Ala Leu Ala Ser Val Thr Phe Phe Ala
 180 185 190
 Thr Ser Asp Ser Gln Pro Pro Arg Leu His Trp Val Arg Asn
 195 200 205

<210> 164
 <211> 46
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (21)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 164

Pro Pro Val Ser Ser Phe Arg Cys Glu Pro Asp Pro Arg Gly Arg Arg
 1 5 10 15

Tyr Leu Gly Leu Xaa Val Phe Tyr Val Val Thr Val Ile Leu Cys Thr
 20 25 30

Trp Ile Tyr Gln Arg Gln Arg Arg Gly Ser Leu Phe Cys Pro
 35 40 45

<210> 165

<211> 46

<212> PRT

<213> Homo sapiens

<400> 165

Met Pro Val Thr Pro Glu Ile Leu Ser Asp Ser Glu Glu Asp Arg Val
 1 5 10 15

Ser Ser Asn Thr Asn Ser Tyr Asp Tyr Gly Asp Glu Tyr Arg Pro Leu
 20 25 30

Phe Phe Tyr Gln Glu Thr Thr Ala Gln Ile Leu Val Arg Ala
 35 40 45

<210> 166

<211> 45

<212> PRT

<213> Homo sapiens

<400> 166

Leu Asn Pro Leu Asp Tyr Met Lys Trp Arg Arg Lys Ser Ala Tyr Trp
 1 5 10 15

Lys Ala Leu Lys Val Phe Lys Leu Pro Val Glu Phe Leu Leu Leu Leu
 20 25 30

Thr Val Pro Val Val Asp Pro Asp Lys Asp Asp Gln Asn
 35 40 45

<210> 167

<211> 46

<212> PRT

<213> Homo sapiens

<400> 167

Trp Lys Arg Pro Leu Asn Cys Leu His Leu Val Ile Ser Pro Leu Val
 1 5 10 15

Val Val Leu Thr Leu Gln Ser Gly Thr Tyr Gly Val Tyr Glu Ile Gly
 20 25 30

Gly Leu Val Pro Val Trp Val Val Val Ile Ala Gly Thr
 35 40 45

<210> 168

<211> 23
 <212> PRT
 <213> Homo sapiens

<400> 168
 Ala Leu Ala Ser Val Thr Phe Phe Ala Thr Ser Asp Ser Gln Pro Pro
 1 5 10 15
 Arg Leu His Trp Val Arg Asn
 20

<210> 169
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 169
 Thr Glu Lys Lys Lys Thr Cys Ile Leu Gly Ile Asp Pro Ser His
 1 5 10 15

<210> 170
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 170
 Arg Pro Gly Thr Ala Ile Trp Val Val Glu Cys Glu His Gly Arg Pro
 1 5 10 15
 Ile Ala Glu Ser Glu Gly Gln Glu Gly Arg Gly His Ser Pro Pro Gly
 20 25 30
 Pro Cys Ser Val Ala Gly Phe Leu Arg Gly Arg Leu Gly Arg Asn Leu
 35 40 45

Glu Ile
 50

<210> 171
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 171
 Arg Arg Glu Ser Phe Lys Val Thr Gly Leu Gly Pro Ser Leu Asn Pro
 1 5 10 15
 Phe Pro His Pro Pro Asn Ser Pro Ser Pro Met Pro His Phe Leu Leu
 20 25 30
 Leu Val Ala Lys Thr Ile Leu Ile Asn Ser Glu Met Asn Met Ser Pro
 35 40 45
 Glu Tyr Ser Gln Thr Cys Leu Gln Asn Thr Ala Ile Gln His Pro Val
 50 55 60

Ile Lys Glu Lys Asp
 65

<210> 172
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 172
 Met Pro His Phe Leu Leu Leu Val Ala Lys Thr Ile Leu Ile Asn Ser
 1 5 10 15
 Glu Met Asn Met Ser Pro Glu Tyr Ser Gln Thr Cys Leu Gln Asn Thr
 20 25 30
 Ala Ile Gln His Pro Val Ile Lys Glu Lys Asp Met Gln Pro Trp Ala
 35 40 45
 Gly Leu Cys Pro Leu Leu Val Leu Trp Ile Ser Gly His Leu His Cys
 50 55 60
 Ile Ser Ala Leu Leu Gln Glu Arg Gly Val Gly Val Ser Leu Ser Ser
 65 70 75 80
 Arg Ser Asp Ala Cys Lys Ala Ala His Arg Ile Gly Thr Ser Ser Ser
 85 90 95

<210> 173
 <211> 27
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (25)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 173
 Ala Ser Phe Ala Ile Ser Gln Pro Arg Asp Arg Asn Ala Cys Arg Tyr
 1 5 10 15
 Pro Ala Ala Phe Arg Gln Trp Cys Xaa Lys Gly
 20 25